X

ANNUAL

ADMINISTRATION REPORTS

OF

THE FOREST DEPARTMENT

(SOUTHERN AND NORTHERN CIRCLES),

MADRAS PRESIDENCY,

FOR THE

OFFICIAL YEAR

1885-86.

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1887.

PROGRESS REPORT

OF

FOREST ADMINISTRATION IN THE SOUTHERN CIRCLE, MADRAS,

FOR THE YEAR 1885-86

By Lieut.-Colonel I CAMPBELL WALKER, staff corps.

CONSERVATOR OF FORESTS

CHAPTER I.

Introductory Remarks.

The Conservator visited all the districts in his Circle, except Tanjore, during the year, the inspection tours having commenced early in July and continued until the close of the year.

The most important forests inspected in each district were :—

Chingleput.—The blocks under settlement in the Tiruvallúr taluk, the Kámbákam reserved forest, and the Pulrambákam reserved land.

North Arcot.—The Javádi hills, the Ammerdi plantation, and the Chittoor reserved lands.

South Arcot.—Chengam and the Javádi hills.

Salem.—The district was twice visited, viz., in July and January, but little forest inspection was done as the District Forest Officer was busy with settlement.

Trichinopoly.—The Pachaimalais.

Coimbatore (*North*).—Fuel and fodder reserves.

Coimbatore (*South*).—Shôlakarai and the Ánaimalais.

Madura.—The Lower and Upper Palnis, and the Alagarmalai reserved forest.

Tinnevelly.—Ghât forests of the Northern range (3 taluks).

Malabar (*Wynaad and Pálghat*).—The Wynaad sub-division and Wálayár.

Malabar (*Nilambúr*).—The Teak plantations and forests, and Kallai depôt.

South Canara.—The Poitaji and Káyarpallé reserved forests ; the tracts selected for reservation, &c.

2. During his tours, the Conservator endeavoured to make himself accessible to the people, heard any representations they had to make with regard to forest matters, reassured them generally as to the objects of Government in constituting reserved forests, and explained that they would not be deprived of reasonable privileges, &c., even though such were legally rejected as rights by the Forest Settlement Officers.

3 All the District Forest offices except Tanjore were inspected during the year, in accordance with paragraph 187 of the Departmental Code, and results communicated to the Collector and the Examiner of Forest Accounts.

4. The time spent in camp by the District Forest Officers during the year is reported as follows :—

District.	Name of Officer in charge.	Number of days spent in camp.
Chingleput	T. Muhammad Ali Sahib Báhdúr ...	139
North Arcot	Mr. T. Sheffield	139
South Arcot	„ H. L. Wooldridge	201 *
Salem	„ J. W. Cherry	194
Trichinopoly	„ A. W. C. Stanbrough	110 †
Coimbatore (North) ...	„ A. W. Peet (173 days)	84
	„ W. C. Hayne (162 days)	62
Coimbatore (South) ...	„ H. J. A. Porter	217
Madura	„ H. A. Gass	250 ‡
Tinnevelly	„ C. E. Brasier	182
Malabar — Wynaad and Pálghat ...	„ R. W. Morgan	249
Malabar — Nilambúr ...	„ G. Hadfield	81 §
South Canara	„ T. P. Peake	158

All the officers travelled sufficiently, the average stay in camp being about six months.

CHAPTER II.

Areas and Boundaries.

5. *Areas.*—The addition of 264,165 acres (equal to 412·76 square miles) to reserved forests, and of 1,415,626 acres (equal to 2,211·91 square miles) to reserved lands, and the transfer of 469,325 acres (equal to 733·32 square miles) from forests regarded as reserves prior to Act V of 1882, and of 19,139 acres (equal to 29·90 square miles) from "unreserved" or "other forests" represent the changes in the areas at the disposal of the department in this Circle during 1885-86.

6. *Reserved Forests.*—The increase in the areas of reserved forests occurs in the following districts :—

District.	Particulars of Increase.				
	By transfer from forests regarded as reserves prior to Act V of 1882.	By transfer from reserved lands.	From other sources.	Total.	
	ACRES.	ACRES.	ACRES.	ACRES.	SQ. MILES.
Chingleput	17,565	..	..	17,565	27·45
North Arcot	87,348	..	799	88,147	137·73
South Arcot	1,760	..	..	1,760	2·75
Coimbatore (North)	....	..	12,800	12,800	20·
Coimbatore (South)	....	47,679	..	47,679	74·50
Madura	11,521	5,956	..	17,477	27·30
Malabar — Wynaad and Pálghat ..	75,802	..	..	75,802	118·44
Malabar — Nilambúr	1,860	..	1,075	2,935	4·59
Total ..	195,856	53,635	14,674	264,165	412·76

Acres 1,760 in South Arcot, 11,520 in Madura, and 2,935 in Malabar (Nilambúr), or 16,215 acres in all, were constituted under section 25 of the Forest Act, and the remainder, viz., 247,950 acres, under section 16.

7. The following table shows the progress made in the constitution of reserved forests in the Southern Circle since the introduction of the Forest Act. The small proportion which the area of reserved forests bears to the district areas rebuts any

* Including the inspection of Shiyáli taluk, Tanjore.
† Absent on privilege leave (medical certificate) two months, from 21st July.
‡ Includes stay on the Palnis during hot weather.
§ Was out almost daily supervising the different operations which are within a radius of about 8 miles of head-quarters.

charge of over-reservation, but, of course, except perhaps in Coimbatore (South), we have not yet completed our selections :—

District.	Extent of Reserved Forests constituted under the Forest Act V of 1882.						
	1883-84.	1884-85.			1885-86.		
	Under section 25 only.	Under section 25.	Under section 16.	Total.	Under section 25.	Under section 16.	Total.
1	2	3	4	5	6	7	8
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Chingleput	..	..	..	..	..	27·45	27·45
North Arcot	..	..	56·82	56·82	..	137·73	137·73
South Arcot	..	..	..	..	2·75	..	2·75
Salem	..	..	..	..	..	..	..
Trichinopoly	4·12	1·07	..	1·07	..	..	..
Tanjore	..	..	..	..	..	..	..
Coimbatore (North)	3·69	..	..	..	..	20·00	20·00
Coimbatore (South)	162 00	..	329·40	329 40	..	74·50	74 50
Madura	257·06	..	..	..	18·00	9·31	27·31
Tinnevelly	286·80	..	..	..	..	..	..
Malabar { Wynaad and Pálghat ..	4·75	..	..	..	..	118·44	118·44
Malabar { Nilambúr	6·26	..	..	..	4·59	..	4·59
South Canara	..	1·38	..	1·38	..	..	..
Total ..	724·68	2·45	386·22	386·67	25·34	387·43	412·77

District.	Extent of Reserved Forests constituted under the Forest Act V of 1882—*cont.*			District area.	Percentage of reserved forests.
	Grand Total.				
	Under section 25.	Under section 16.	Total.		
	9	10	11	12	13
	SQ MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	
Chingleput	..	27·45	27·45	2,842	·97
North Arcot	..	194·55	194·55	7,256	2·68
South Arcot	2·75	..	2·75	4,873	·06
Salem	..	..	..	7,653	..
Trichinopoly	5·19	..	5·19	3,561	·15
Tanjore	..	..	..	3,654	..
Coimbatore (North)	3·69	20·00	23·69	} 7,842	7·52
Coimbatore (South)	162·00	403·90	565·90		
Madura	275·06	9·31	284·37	8,401	3·39
Tinnevelly	286·80	..	286·80	5,381	5·33
Malabar { Wynaad and Pálghat ..	4·75	118·44	123·19	} 5,765	2·33
Malabar { Nilambúr	10·85	..	10·85		
South Canara	1·38	..	1·38	3,902	·04
Total ..	752·47	773·65	1,526·12	61,130	2·49

8. The areas proposed for reservation under section 4 of the Forest Act regarding which notifications under section 16 had not been issued up to 31st March 1886, are as follows :—

District.	Of those notified under Section 4 in 1883-84.		Of those notified under Section 4 in 1884-85.		Notified under Section 4 in 1885-86.		Total.	
	Acres.	Equivalent in square miles.	Acres.	Equivalent in square miles.	Acres.	Equivalent in square miles.	Acres.	Equivalent in square miles.
Chingleput	..	..	29,055	45·40	9,596	14·99	38,651	60·39
North Arcot	47,125	73·63	..	..	..	..	47,125	73·63
South Arcot	..	..	..	..	119,915	187 36	119,915	187·36
Salem	..	..	* 3,41,043	* 532·88	* 96,015	* 150·02	* 437,058	* 682·90
Trichinopoly	12,000	18 75	..	..	7,025	10·98	19,025	29·73
Coimbatore (North) ..	..	..	48,000	75·00	..	..	48,000	75·00
Madura	..	..	† 1,996	† 3·12	..	..	† 1,996	† 3·12
Tinnevelly	..	..	..	..	172,606	269·70	172,606	269·70
Malabar { Wynaad and Pálghat ..	16,369	25·58	61,974	96·83	25,600	40·00	103,943	162·41
South Canara	..	..	..	..	48,055	75·09	48,055	75·09
Total ..	75,494	117·96	4,82,068	753·23	478,812	748·14	1,036,374	1,619·33

* Merged in the area of reserved lands constituted in 1884-85.
† Merged in the area of reserved lands.

9. With regard to the areas notified in 1883-84, the delay in completion of settlement in North Arcot is owing to the settlement of three blocks on the Javádis having been quashed by the appellate courts on account of irregularities in procedure. Government have ordered a re-notification and settlement by Mr. Wolfe-Murray. In the case of Trichinopoly, the delay is due to constant changes in the Divisional Revenue Officers appointed Forest Settlement Officers. In Wynaad and Pálghat, the appeals in respect of Chenat Nair forests (25·58 square miles) were only decided at the close of the year, too late for final notification under section 16.

Of the areas of 1884-85, the settlement of those in Chingleput was delayed through changes in the Divisional Revenue Officers; but is now well in hand through the appointment of Mr Pinto, Deputy Collector, as Special Forest Settlement Officer.

In Salem, twelve blocks, aggregating 40,493 acres, were "settled" by Mr. Wolfe-Murray, C.S. The settlement of the rest is in progress, and will, it is hoped, be completed during the current year.

The 75 square miles representing the area of the eastern slopes of the Nílgiris in Coimbatore (North) were really finally notified as reserved forest under section 16 from 1st March; but the date was subsequently changed to 1st June at the instance of the Forest Settlement Officer, to enable him to publish the required proclamation, &c.

In Madura inquiry was completed in all cases at the close of the year by Divisional Revenue Officers, whilst in the Wynaad the numerous and complicated claims advanced were carefully investigated by Mr. Castlestuart Stuart, C.S., whose final decisions were pending at the close of the year.

The settlement of the areas of 1885-86 has been placed in the hands of Special Forest Settlement Officers in all districts, excepting Trichinopoly, Madura, and South Canara, and good progress may be expected during the current year, if existing arrangements are not disturbed.

10. *Reserved Lands.*—The sources from which areas were added to the list of reserved lands in each district during the year are indicated in the following table:—

District.	Added by transfer from forests regarded as reserves prior to Act V of 1882.	Added by transfer from unreserved or other forest.	New areas brought to account during the year.	Additions or deductions on account of demarcation and survey or other causes.	Deductions on account of transfer to reserved forests.	Total or net result.	
	ACRES.	ACRES.	ACRES.	ACRES.		ACRES.	SQ. MILES.
Chingleput	35,238	3,207	2,625	— 1,116	..	39,952	62·43
North Arcot	44,800	..	224,422	— 5,644	..	263,578	411·84
South Arcot	84,190	26,320	16,200	— 6,795	..	119,915	187 37
Salem	..	..	10,000	— 13,760	..	— 3,760	— 5·88
Trichinopoly	1,438	..	17,587	..	..	19,025	29·73
Tanjore	4,355	..	..	..	..	4,355	6·80
Coimbatore (North) ..	..	..	666,027	..	..	666,027	1040 67
Coimbatore (South) ..	..	..	..	..	— 47,680	— 47,680	— 74·50
Madura	..	2,438	1,920	..	— 5,956	— 1,598	— 2·50
Tinnevelly	..	201,856	..	+ 858	..	202,714	316 74
Malabar { Wynaad and Pálghat..	105,043	..	..	..	..	105,043	164 13
Malabar { Nilambur ..	..	..	..	..	..	..	..
South Canara	..	..	48,055	..	..	48,055	75·09
Total ..	275,065	233,821	986,836	— 26,459	— 53,636	1,415,626	2211·92

The above results compare favorably with those of the preceding year as shown below, although 214,523 acres, or 335·19 square miles, of forests notified under section 4 of the Act in 1883-84 and 1884-85 which were included under reserved lands in 1885-86 are not taken into account for the purposes of such comparison.

District.	Area of Reserved Lands as per Annual Report for 1884-85.			Areas of Reserved Lands added during 1885-86.			Total Areas of Reserved Lands on 31st March 1886.			
	Notified under rule 2 of the rules under section 26.	Notified under section 4 of Forest Act.	Total.	Those notified under rule 2 of the rules under section 26.	Of those notified as proposed reserves under section 4.	Total.	Notified under rule 2 of the rules under section 26	Of those notified as proposed reserves under section 4.	Total.	Percentage as compared with district areas.
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Chingleput	22·69	..	22·69	2 03	60·39	62·42	24·72	60·39	85·11	2·99
North Arcot	110·62	..	110·62	338·21	73·63	411·84	448 83	73·63	522·46	7·17
South Arcot	..	..	..	..	187·37	187·37	..	187·37	187·37	3·85
Salem	183·30	682·90	866·20	— 5·87	..	— 5·87	177·43	682·90	860·33	11·11
Trichinopoly	..	..	..	..	29·73	29·73	..	29·73	29·73	·83
Tanjore	..	..	..	6·80	..	6·80	6·80	..	6·80	·19
Coimbatore (North) ..	43·63	..	43·63	965·67	75·00	1,040·67	1,009·30	75·00	1,084·30	} 14·05
Coimbatore (South) ..	92·24	..	92·24	— 74·50	..	— 74 50	17·74	..	17·74	
Madura	132·55	3·12	135·67	— 2·50	..	— 2·50	130·05	3·12	133·17	1·59
Tinnevelly	..	..	..	47·04	269·70	316·74	47·04	269·70	316·74	5·89
Malabar (Wynaad and Palghat)	19·92	.	19·92	1·72	162·41	164·13	21·64	162·41	184·05	3·19
South Canara	..	..	..	..	75·09	75·09	..	75·09	75·09	1·92
Total ..	604·95	686·02	1,290·97	1,278 60	933·32	2,211·92	1,883·55	1,619·34	3,502·89	5·73

11. A special report on fuel and fodder reserves was submitted during the year in compliance with the orders of Government. The progress made has not been great owing to press of other work, such as settlement and demarcation of reserved forests.

12. It only remains to consider the areas of "Forests regarded as reserves prior to the passing of Act V of 1882," and of "Other forests" as exhibited in forms No. 59 B and 59 D. From the former—

195,856 acres were transferred to 59 A (reserved forests) as explained in para. 6.
275,064 acres were transferred to 59 C (reserved lands) as per para. 10.
150 acres being area of forest land near Dóni in Wynaad and Pálghat, transferred to form No. 59 D (other forests).
2 acres, difference on account of survey, struck off in the area of Chedlet forest in Wynaad and Pálghat before transfer to reserved forests.

471,072 total deductions.
1,747 added in Nilambúr by transfer from the area of plantations, &c.

469,325 acres net deduction from 665,922 acres at the commencement of the year, leaving a balance of 196,597 acres, or 307·19 square miles, on 31st March 1886, in the districts of Chingleput, South Arcot, Trichinopoly, Tanjore, Coimbatore (South), Madura, and Malabar (Nilambúr).

13. From the areas under "Other forests" on 31st March 1885, we deduct 233,823 acres transferred to 59 C (reserved lands) as per paragraph 10, and add 214,680 as per marginal details, being a net deduction of 19,140 acres, leaving a balance of 720,477 acres, or 1,125·75 square miles, in the districts of South Arcot, Tanjore, Madura, Tinnevelly, Malabar (Wynaad and Pálghat) and South Canara.

+ 150 acres transferred from 59 B in Wynaad.
+ 214,400 acres, area of a new block, "Manattanna," in Wynaad and Pálghat division.
+ 130 acres, areas of Tannír Bhávi and Parappa in South Canara.

14. There are doubtless other large areas of forests in several districts not yet considered or brought to account; but as far as the figures are available, the areas of all descriptions of forests under this department in the Southern Circle at the close of the year were as follows, the net result as compared with the areas at commencement of the year being an addition of 1,861·46 square miles, the principal increase occurring

under "*Reserved forests*" in North Arcot, Coimbatore (South), and Malabar (Wynaad); "*Reserved lands*" in Coimbatore (North) and North Arcot, and under unreserved or "*Other forests*" in Malabar (Wynaad):—

District.	On 31st March 1885.					On 31st March 1886.		
	59 A. Reserved forests.	59 B. Forests regarded as reserves prior to Act V of 1882.	59 C. Reserved lands.	59 D. Other forests.	Total.	59 A. Reserved forests.	59 B. Forests regarded as reserves prior to Act V of 1882.	59 C. Reserved lands.
1	2	3	4	5	6	7	8	9
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Chingleput	..	89·65	22·69	5·01	117·35	27·44	7·15	85·12
North Arcot	56·82	206·48	110·62	..	373·93	194·55	..	522·47
South Arcot	..	396·76	..	629·93	1,026·70	2·75	262·47	187·37
Salem..	..	..	866·20	..	866·20	..	..	860·33
Trichinopoly	5·19	3·63	..	..	8·82	5·20	1·38	29·73
Tanjore	..	17·13	..	5·36	22·49	..	10·33	6·80
Coimbatore (North) ..	3·69	..	43·63	..	47·32	23 69	..	1,084·30
Coimbatore (South) ..	491·40	2·05	92 24	..	585·70	565·91	2·05	17·75
Madura	257·06	24·25	135·67	183·03	600·02	284·37	6·25	133·18
Tinnevelly	286·80	..	..	332·30	619·11	286·81	..	316·74
Malabar .. Wynaad and Pálghat ..	4·71	282·80	19·92	..	307·43	123·15	..	184·06
Malabar .. Nilambúr ..	6·26	17·72	..	..	23·99	10 85	17·55	..
South Canara	1·38	..	..	..	1·38	1·38	..	75·09
Total ..	1,113·35	1,040 50	1,291 01	1,155·65	4,600 44	1,526·12	307·19	3,502·93

District.	On 31st March 1886—*continued.*				Difference.				
	59 D. Other forests.	Total.	District area.	Percentage.	59 A. Reserved forests.	59 B Forests regarded as reserves prior to Act V of 1882.	59 C. Reserved lands.	59 D. Other forests.	Total.
	10	11	12	13	14	15	16	17	18
	SQ. MLS.	SQ. MLS.	SQ. MLS.		SQ. MLS.	SQ. MLS	SQ. MLS.	SQ. MLS.	SQ. MLS.
Chingleput	..	119·71	2,842	4·21	+ 27·45	— 82·50	+ 62·42	— 5·01	+ 2·35
North Arcot	..	717·02	7,256	9·88	+ 137·73	— 206·48	+ 411·84	..	+ 343·09
South Arcot	588·81	1,041·39	4,873	21·37	+ 2·75	— 134·30	+ 187·37	— 41·12	+ 14·70
Salem	..	860·33	7,653	11·24	..	..	— 5·88	..	— 5·88
Trichinopoly	..	36·32	3,561	1·02	..	— 2·25	+ 29·73	..	+ 27·49
Tanjore	5·36	22·50	3,654	·62	..	— 6·80	+ 6·80	..	..
Coimbatore (North) ..	..	1,108·00	7,842	21·60	20·00	..	+1,040·67	..	+1,060·67
Coimbatore (South) ..	..	585·70			+ 74·50	..	— 74·50	..	..
Madura	179·23	603·03	8,401	7·18	+ 27·31	— 18·00	— 2·50	— 3·81	3·00
Tinnevelly	16·91	620·46	5,381	11·53	..	..	+ 316·74	— 315·40	+ 1·34
Malabar .. Wynaad and Pálghat ..	335·23	642·45	5,765	11·64	+118·44	— 282·81	+ 164·13	+ 335·23	+ 334·99
Malabar .. Nilambúr ..	..	28·40			+ 4·58	— 0·18	..	..	+ 4·41
South Canara	0·20	76·67	3,902	1·96	..	..	+ 75·09	0·20	+ 75·29
Total ..	1,125·75	6,461·99	61,130	10·57	+ 412·76	— 733·32	+2,211·91	— 29·90	+1,861·46

15. The total areas in each class on 31st March 1886, as compared with those on 31st March 1885, are as follows:—

—	On 31st March 1885.	On 31st March 1886.	Difference.
	SQ. MLS.	SQ. MLS.	SQ. MLS.
Reserved forests under Act V of 1882 ..	1,113·35	1,526·12	+ 412·76
Reserved lands do. ..	1,291·01	3,502·93	+ 2,211·91
Forest regarded as "Reserves" prior to the introduction of the Act and not yet settled or notified for settlement under its provisions	1,040·50	307·19	— 733·31
Other forests	1,155·65	1,125·75	— 29·90
Total ..	4,600·51	6,461·99	+ 1,861·46

BOUNDARIES.

16. The clearing of boundary lines and demarcation, permanent and temporary, extended over about 193 miles in the several districts at a cost of Rs. 3,317, or about Rs. 17 per mile on an average. There can be no uniformity in rates as the cost depends upon the nature of undergrowth in lines cleared, the configuration of the ground, method of demarcation adopted, and cost of labor and materials used, which differ according to circumstances.

The following particulars explain the work done in the Reserved Forests of the several districts:—

District.	Particulars.	Number of miles of lines cleared or demarcated	Cost.
			RS.
Chingleput ...	Clearing boundary lines for permanent demarcation of Tirukalikundram, Uragadam, and Madayattúr reserved forests, 5 yards or 15 feet broad ...	9¼	425
South Arcot ...	Demarcating and fencing permanently Annámalai reserved forest with a stone wall, 3 feet high and 1½ feet broad, with mile and furlong stones built in	4	2,000
Coimbatore (North) ...	Clearing lines in the Vellamundi reserved forest and demarcating in a preliminary manner by erecting about 850 wooden posts with whitewashed pots or chatties at top	70	300
	Note.—Cairns around those posts have yet to be erected.		
Coimbatore (South) ...	Erecting 577 cairns in the Mettupálaiyam range for the permanent demarcation of the Bhavání valley reserved forest	36	215
	Clearing lines in the Bolampatti range and demarcating permanently with 13 cairns and 153 stones.	17	62
	Note.—The cairns consist of roughstone to a height of 3 feet round posts 7 feet high and 6 inches in diameter, firmly driven into the ground and bearing consecutive numbers. The stone pillars are 7 feet high and 6 inches thick with consecutive numbers.		
Madura	Completing the demarcation of Vannátipárai reserved forest, Rs. 104	20	147
	Erecting special boundary pillars for Kukal and Kudiraiyár reserved forest, Rs. 43 as per pattern given in last year's report	...	
Malabar. { Wynaad / Pálghat }	Clearing a line 3 feet broad in Bégúr reserved forest and completing interior demarcation by the erection of 107 teak posts with cairns of stones every furlong, the mile and furlong numbers being deeply cut on teak boards and nailed to the posts	25¼	127
	Demarcating southern boundary of Kurchiyát reserved forest on the above plan and erecting 12 mile posts and 79 furlong posts and 91 cairns...	11¼	41
	Total ...	193	3,317

17. *Other Forests.*—About 600 miles of boundary lines were cleared and demarcated in a preliminary manner at a cost of Rs. 2,000, or Rs. 3⅓ per mile on an average.

North Arcot.—The transfer of certain areas from Salem and South Arcot with a view to their better administration was sanctioned during the year; and the clearing and demarcation of new boundary lines is in progress.

Salem.—Thirty-nine blocks, in seven ranges, were taken up for demarcation, and 288 miles finished at a cost of Rs. 864, or Rs. 3 per mile. Pending completion of

settlement, the demarcation was confined to such portions of the boundaries of blocks under inquiry as are not sufficiently indicated by natural features.

The method adopted is to erect stout 9-foot poles tarred at the bottom, surrounded by a cairn of stones to a height of 3 feet and surmounted by a whitewashed chatti.

Tanjore.—The plantation at Káttucheri was demarcated by the Revenue Survey Department at a cost of Rs. 21.

Coimbatore (North).—The works done were as follows, preliminary to notification of blocks for settlement as reserved forests :—

			RS.
	Satyamangalam Range.		
Cleared 110 miles of lines 6 feet wide and erected	1,326 posts ...	...	470
	Kollegál Range.		
Cleared 66 miles of lines 6 feet wide and erected	720 posts ...	...	267
	Bhaváni Range.		
Cleared 64 miles of lines 6 feet wide and erected	392 posts ...	...	212
Total 240 miles	2,438		949

or an average of Rs. 4 per running mile.

Twenty-one running miles of boundary of fuel and fodder reserves area in Erode taluk were cleared for Rs. 27, the work being very light.

Coimbatore (South).—Mr. Peet, Deputy Conservator of Forests, was deputed to represent Government in the settlement of the Travancore boundary on the Ánaimalais. He visited the locality with the Travancore representative; but as the two officers were unable to agree, the matter had been referred to arbitration.

Madura.—Old boundary lines were carefully gone over and damaged posts replaced. The boundary of the Rettiambadi Mitta and the eastern and western boundaries of the Ayakudi Zemindari were marked out; but the demarcation was not in accordance with the decision of the civil court, and will have to be done over again.

Tinnevelly.—The Marundi reserved land, in the Tenkási taluk, and the Mélavattam reserved land near Tuticorin were demarcated, the former with seventy stones for Rs. 175 and the latter with 105 stones for Rs. 267. The letters F. D. and serial numbers are cut on the stones.

Fifty-one miles of boundary lines between Government and other private forests were cleared for Rs. 159, and the boundary line between Government and Tíruvádutturai matam land at Vadagarai (Nángunéri taluk) was recleared at a cost of Rs. 97.

CHAPTER III.

Surveys, Working Schemes and Annual Plan of Operations.

18. *Surveys.*—Government, in their order, dated 17th August 1885, Mis. No. 4288, Revenue, called for a detailed forecast of forest survey work for the next two years, which was duly furnished. The Superintendent, Madras Survey, then drew up his scheme after consultation with the Conservator of Forests, and the whole matter is now again before Government. It is hoped that some scheme will shortly be sanctioned and ordered to be put in hand at once.

19. Very little survey work was done during the year by Forest Officers. Forester Rebeiro, in the North Arcot district, surveyed the Tellai proposed reserved forest, and prepared a map of it. In Salem certain outlines and interior lines of the Mórúr, Vadagampatti, and Kanjeri blocks were surveyed in order to expedite working arrangements for supply of railway fuel. In Coimbatore (South), the exterior lines of the thirty-nine compartments of the Tekadi leased forest (26 square miles) were surveyed departmentally with prismatic compass and chain for the purpose of framing a working scheme. The same method of surveying was adopted in South Canara, by the District Forest Officer, in regard to Chinkramale block, and by the Ranger in surveying the space available for extension of plantation at Tannír Bhávi. The former was not completed within the year, and the latter gave a result of 29½, acres.

In the Trichinopoly district two Surveyors, from the Revenue Survey Department, were engaged in the survey of the north banks of the Cauvery and Coleroon

rivers, but the work had not been completed at the close of the year. The District Forest Officer is unable to prepare working schemes for forest-clad areas on the northern banks until its completion.

Mr. Stanbrough explains that the departmental surveys referred to in the last annual report, the accuracy of which was called in question by the Revenue Survey Department, were merely undertaken in order that the Collector might decide the limits of padugais (river banks) over which the Public Works Department and the Revenue Department should, respectively, retain control and enable the Forest Department to prepare preliminary working schemes for the remainder. Both objects were attained, but it is matter for regret that the survey could not be incorporated in the Revenue Survey maps owing to the fact of its having been executed with prismatic compass and chain, whereas the Survey Department maps are based on a theodolite survey.

In Madura, the demarcation and survey of the Lower Palnis was continued by the Revenue Survey Department throughout the year, but no maps have yet been published.

The Revenue Survey Department was expected to do a great deal of work in this district during the year, and extensive clearings of lines for their purposes were made by the District Forest Officer, but the outturn of work did not come up to expectations, and it is feared that many of the lines will have to be re-cleared.

In Wynaad and Pálghat, a Surveyor was at work in the Wálayár reserved forest, demarcating the extensive areas of sheet rock and sub-dividing the blocks into compartments. The sheet rock was demarcated and surveyed, but further progress was retarded owing to the illness of the Surveyor who got Wálayár fever.

The Botanical Garden at Manantoddy (area 20·44 acres) and a block of screw-pine swamp (area 39·36 acres) were surveyed and mapped, and a notification under section 4 of the Forest Act submitted for the latter.

20. *Working Schemes.*—No working schemes were sanctioned during the year for any of the reserved forests. Much progress in this direction cannot be expected until forest settlement is completed, and so long as the existing want of forest surveys and maps remains unsupplied. The Conservator's views on the subject of starting a working plans branch for this Circle were submitted to the Board in the beginning of the year, and they agreed with him that all that could be done at present was to organize a special party for forest surveys under a specially qualified Survey Officer (*vide* Board's Proceedings, dated 18th April 1885, No. $\frac{1219}{\text{Forest 222}}$).

A sufficient number of blank books for "Forest journals" prescribed in paragraph 79 of the Departmental Code were supplied to all districts with instructions. It is hoped that much information useful for the preparation of working schemes will be available from these books in course of time, if the instructions are adhered to.

21. In North Arcot, Rangers and Foresters were instructed to number, measure, and keep a record of all sandal trees, and collect other data for a working scheme for the sandalwood supply from the Javádi hills. In South Arcot, the preparation of preliminary schemes for the Annámalai reserved forest, the six Gingee proposed reserves, and five other blocks besides the Vettangudi forest and plantation in Shiyáli taluk, Tanjore, was initiated; but the schemes have not reached this office for approval and sanction. The District Forest Officer, Salem, submitted a preliminary scheme for working the Mórúr block, which was returned for revision with detailed instructions.

In Trichinopoly, a compartment was roughly marked out in the Punjantángi hill reserved forest and a portion of it felled, from which data for the preparation of a working scheme will be collected.

A preliminary working scheme for the reserved forest (plantations) on the Cauvery south bank has been prepared, but is still under revision by the District Forest Officer in accordance with instructions sent to him by the Conservator.

In South Canara preliminary schemes were prepared by the District Forest Officer for Poitaji and other old coast reserves and shown to the Conservator during his visit to the district. They had to be revised and were not finally drawn up for approval at the close of the year.

During the Conservator's inspection of Nilambúr, in October 1885, a statement showing approximately the number of trees which should be removed and left standing in the teak plantations during quinquennial periods from the eleventh to sixty-first year of growth was drawn up, on the basis of which a preliminary working scheme for the next five years' thinnings was framed.

The progress made as regards preliminary working schemes in Coimbatore (South) was greater than in other Forest divisions, the settlement of reserved forests being complete, and the District Forest Officer able to direct his attention and that of his Sub-Assistant Conservator (trained at the Forest School, Déhra Dún) to this important professional matter. A scheme for the Shôlakarai block of the Bôlampatti reserved forest was prepared but not finally revised and sanctioned by the Conservator until after the close of the official year. The map and working plan are, however, submitted as an appendix No. I to this report, three cuttings (*coupes*) having been made during the year under review with satisfactory results.

Sufficient data were collected for framing a scheme for the Tekadi leased forest in the same district, which was under preparation at close of the year, and has since been submitted by the District Forest Officer. It will be referred to in next year's report.

22. *Annual plans of operations.*—These were as usual matured by the Conservator in communication with District Forest Officers and Collectors in connection with the budget estimates.

They have been fairly well adhered to, except in South Arcot, Coimbatore, and South Canara, where circumstances involved considerable deviations from the original plans.

CHAPTER IV.

PROTECTION AND IMPROVEMENT.

Section 1.—*Reserved Forests.*

Section 2.—*Other Forests.*

23. It is still impossible to deal separately with the reserved and other forests as the establishments have not been separately employed on one or other class in particular.

(a) *Establishments, Ranges, and Beats.*

24. *Establishment.*—The superior staff was increased during the year by the addition of one trained officer from England (Mr. Somers Smith) and stood as follows on 31st March 1886 :—

1 Conservator,
8 Deputy Conservators,
5 Assistant Conservators,

of whom one Deputy Conservator (Mr. Peet) was absent on furlough.

The increase in the number of Deputy Conservators, as compared with last year, is due to the permanent promotion of two Assistant Conservators (Messrs. Hadfield and Stanbrough) to that class consequent on the death of Mr. Boileau, Deputy Conservator attached to the Northern Circle, and the reversion of Mr. Sim, C.S., of the same Circle, to the Revenue Department.

Messrs. Cherry and Morgan, Deputy Conservators, 2nd and 4th grades, were promoted permanently to 1st and 3rd grades, respectively. Of the Assistant Conservators, Mr. Brasier, 2nd grade, and Mr. Peake, 3rd grade, having passed the prescribed examinations and obtained the requisite certificates of competency to hold charge of a district or range, were promoted to the 1st and 2nd grades, respectively.

There were several acting promotions in both classes during the year in consequence of absence of officers on leave, &c., including that of a Native Sub-Assistant Conservator, T. Muhammad Ali Sahib, to the Assistant Conservators class.

25. The subordinate staff (permanent) of executive and protective establishments on 31st March 1886 consisted of—

6 Sub-Assistant Conservators,
30 Forest Rangers,
74 Foresters,
342 Forest Guards,

distributed as under:—

District.	Sub-Assistant Conservators.		Rangers.		Foresters.		Forest Guards.		Office Clerks.		Office Inferior Servants.		Total cost.
	Number.	Cost.	Number.	Cost.	Number.	Cost.	Number.	Cost.	Number.	Cost.	Number.	Cost.	
		RS.		RS.		RS.		RS.		RS.		RS.	RS.
Direction ..	..	..	..	..	3	45	..	..	9	457	7	62	564
Chingleput ..	1	200	..	..	3	70	14	100	1	25	5	37	432
North Arcot ..	..	..	3	235	10	260	44	302	4	115	5	40	952
South Arcot ..	..	..	2	140	9	250	50	400	4	115	5	40	945
Salem ..	1	200	3	210	9	240	50	371	5	140	7	53	1,214
Trichinopoly ..	..	..	2	140	4	100	18	130	3	75	5	39	484
Tanjore ..	..	..	..	..	2	80	3	25	1	25	1	6	136
Coimbatore (North) ..	..	..	3	170	4	90	25	200	4	115	5	40	615
Coimbatore (South) ..	1	150	3	190	6	170	30	214	4	115	5	40	879
Madura ..	..	..	3	230	6	170	27	210	3	75	7	54	739
Tinnevelly ..	1	150	2	100	6	150	24	167	4	100	7	54	721
Malabar: Wynaad and Pálghat.	1	150	3	170	3	70	27	190	5	140	7	54	774
Malabar: Nilambúr..	*1	100	1	50	3	80	6	48	3	75	4	32	385
South Canara ..	..	..	1	50	4	100	24	191	3	75	5	39	455
Forest School ..	..	..	4	230	2	60	..	..	1	20	..	..	310
Total ..	6	950	30	1,915	74	1,935	342	2,548	54	1,667	75	590	9,605

* Probationer under training for the Forest School.

The full complement in each class was employed, except under Forest Guards, in which there were a few vacancies at the end of the year. The cost was, however, less than the sanctioned amount for the year by Rs. 370 per mensem. This was chiefly owing to the employment of men in lower grades for vacancies in higher grades.

26. *Ranges and Beats.*—These were fully explained in the last annual report. The distribution as regards all divisions, excepting the following remains unaltered.

South Arcot.—One new range, called Vriddháchallam, or No. VII, was constituted. This was formerly included in No. IV or Head-quarter Range.

The name of No. II Range was altered into Tindivanam, and of No. III into Villupuram.

Tanjore.—All the forests in the Shiyáli taluk were constituted into one range and placed in charge of a First-grade Forester subject to the supervision of the District Forest Officer, South Arcot, the forests in other ranges having been placed *pro tem.* under the immediate charge of the Revenue Department.

Madura.—Instead of three ranges five were formed for reasons explained in the last annual report. They are as follows:—

No. I. Comprising the Periyakulam taluk, in charge of a Ranger with a Forester in charge of Cumbum Sub-Range.

No. II. Comprising the Palni taluk in charge of a Ranger with a Forester at Palni and another on the Lower Palnis.

" III. Comprising the Dindigul taluk in charge of a Forester.

" IV. Comprising Mélúr taluk in charge of a Forester.

" V. Comprising the Madura and Tirumangalam taluks, under a Ranger with a Forester in charge of Alagarmalai reserved forest.

Endeavours will be made in next year's report to show the approximate area of each range charge and how much of it is actual forest.

(b) *General Protection and Breaches of Forest Laws.*

27. That general protection has improved may be gathered from the increased number of cases detected during the year, and the large amount of revenue collected

under the seigniorage permit system. The latter may be considered the result of better watching of the forests, as the requirements of the people, which doubtless remain the same, would otherwise be met by illicit cutting and removal of wood, &c., to the detriment of forest revenue.

The number of cases of breaches of forest laws detected and disposed of during the year was as follows as compared with the preceding year :—

Year.	Number of cases pending at the beginning of the year.	New Cases of the Year.					Total cases.
		Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	
1	2	3	4	5	6	7	8
1885-86	189	27	974	69	84	1,154	1,343
1884-85	24	218	622	49	118	1,007	1,031
Difference ..	+ 165	— 191	+ 352	+ 20	— 34	+ 147	+ 312

Year.	Disposed of during the Year.						Cases pending at the close of the year.
	Convictions.		Acquittals.		Total.		
	Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
9	10	11	12	13	14	15	16
1885-86	645	1,735	607	2,522	1,252	4,257	91
1884-85	513	1,784	310	856	823	2,640	208
Difference ..	+ 132	— 49	+ 297	+ 1,666	+ 429	+ 1,617	— 117

The number of cases pending at the beginning of the year is given at 189, while at the end of the preceding year it was shown as 208. The difference, viz., 19, occurs, 15 in Salem, 1 in Tanjore, and 3 in South Canara. In the first-named district it is explained that the figures given in the last annual report were obtained from the returns of Range Officers, and probably included cases pending with them for prosecution after preliminary inquiry, while the figures in the present report are taken from the returns furnished by Magistrates and therefore more accurate In Tanjore it is stated that one case in respect of an offence committed in the Vettangudi forests, which was pending before the Taluk Magistrate, Shiyáli, was disposed of under section 426 of the Indian Penal Code, and therefore omitted in the present return. The difference in South Canara is not explained.

The number of cases pending at close of the year under review was 91, which compares favorably with former years.

The marked reduction in the number of cases of "Injury to forests by fire" occurs principally in North Arcot and South Canara, and is owing to increased precautions and restricting our efforts at prevention to specially protected areas.

The increase in the number of cases of unauthorized felling of wood, &c., occurs in almost all districts. The number of convictions increased slightly in proportion to the number of cases, though a reduction is noticeable in the number of persons convicted. The large apparent increase in the number of cases and persons acquitted, is due to a larger number of cases having been "compounded" by Forest Officers under section 55 of the Forest Act. As there is no special column in which to enter such cases, Forest Officers still continue to include them amongst acquittals, which renders the returns misleading. Steps will be taken to amend the form by the addition of a column "Compounded" under "Disposed of during the year."

28. It is to be regretted that but few of the Forest Officers have specially alluded to the subject of compounding of forest offences in their annual reports. Information is only forthcoming from the following districts, but it is known to the Conservator that few cases, and those only of a petty nature, were compounded elsewhere during the year.

North Arcot.—Five cases in respect of illicit removal of charcoal, in which eleven persons were concerned, were investigated by the District Forest Officer and compounded for Rs. 39 in all.

Salem.—One hundred and eighty-four petty cases, in which 1,219 persons were implicated, were compounded for Rs. 1,007, or at an average rate of annas 13 for each offender.

Madura.—One case, in which two cart-loads of Vengai rafters, fifty-six in number, were removed without permit, was componnded for Rs. 25.

South Canara.—Seventy-six cases, in which ninety-nine persons were concerned, were compounded, the amount realized being Rs. 1,316.

The total number of cases compounded in the above four districts was 266, number of persons 1,330, and amount realized Rs. 2,387.

Besides the above, fifteen cases, in which 163 persons were concerned, were withdrawn in the Salem district.

If we deduct the above from the acquittals as entered in the return, it would appear that only 326 cases, involving 1,029 persons, were really acquitted out of 971 cases disposed of by the magistracy during the year. This represents seventy-five convictions to twenty-five acquittals, which is satisfactory.

29. Cattle trespass and unauthorized encroachments on reserved lands continue to be somewhat too common. Special forest pounds erected in Malabar have done good; but the special pound fees sanctioned under section 58 of the Forest Act for cattle found trespassing in certain reserved forests (plantations) in Trichinopoly appear to have exercised little or no detorrent effect.

These semi-wild cattle roam through the plantations at will, and render all attempts at planting or measures of natural reproduction nugatory in some places. Further measures must be adopted.

30. The District Forest Officer, Wynaad and Pálghat division, complains of the inadequacy of the punishments meted out to convicted offenders in the Wynaad. The Conservator has reason to believe that his complaint is well founded, and the District Magistrate has promised to look into the matter.

There are also complaints of the delay in disposal of forest cases and reluctance of the subordinate magistracy to award rewards to informers in or out of the department.

31. Two cases of considerable theft of timber in Coimbatore (South) were detected and the offender punished. The Ranger in charge was dismissed for neglect of duty and apparent connivance in the thefts by lending the Government stamp, which should never have left his possession.

An important "*Kumari*" case in South Canara was convicted, and a fine of Rs. 200 inflicted; but the sentence was reversed by the High Court on the ground of insufficient evidence.

On the whole the breaches of forest laws may be said to have been of a petty nature and the detection fairly good.

(c) *Forest Fires and Fire Protection.*

32. *General Protection.*—It is believed by several District Officers that owing to increased vigilance and orders circulated to villagers, &c., forest fires generally have decreased. The Conservator, whilst admitting that there may have been some temporary improvement in some districts, does not believe in the efficacy of *general* measures of fire protection. We must adopt *special* measures over comparatively small areas and gradually extend them.

Forest fires in areas not under special protection were very prevalent during the year under report in almost all districts of the Circle.

33. Information as regards forest areas which escaped fire without special protection is available only for the following districts :—

District.	Acres.	Equivalent in square miles.
South Arcot	282,011	440·64
Trichinopoly	5,207	8·13
Coimbatore (South)	167,473	261·67
Madura	172,147	268·97
Tinnevelly	157,977	246·83
Malabar (Wynaad and Pálghat)	72,325	113·00
Total ...	857,140	1,339·24

The Conservator does not attach much value to the above figures.

The areas in all, excepting Madura, are the same as in the preceding year, both as regards extent and locality. In Madura certain areas in which danger from fire was anticipated had been placed under special protection. Hence the reduction of 31,923 acres as compared with the preceding year's figures. No information was furnished for Wynaad and Pálghat in last year's report.

34. *Special Protection.*—Fire protection accounts for the past year were closed on 31st March along with other accounts as sanctioned in G.O., dated 19th April 1886, No. 291, communicated with Board's Proceedings, dated 5th May 1886, Forest No. 233. Form No. 62 has been prepared accordingly, the word fires being substituted for failures in column 5. The following is an abstract thereof :—

District.	Up to 15th June 1885.		During the remaining period of 1885-86, viz., 15th June 1885 to 31st March 1886.				Total cost up to 31st March 1886.
	Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Actually protected.	Amount expended.	
Chingleput	7,350	1,257	7,350	..	7,350	240	1,497
North Arcot	237,869	8,372	234,572	5½	234,566	739	9,111
South Arcot	69,972	1,471	102,360	350	102,310	495	1,966
Salem	17,807	6,246	30,979	3	30,976	1,359	7,605
Trichinopoly	..	..	17,000	..	17,000	784	784
Tanjore	..	..	..	..	..	..	..
Coimbatore (North)	2,364	356	2,364	..	2,364	46	402
Coimbatore (South)	13,917	2,410	13,947	2,630	11,317	831	3,241
Madura	77,249	5,965	120,362	1,021	119,341	3,379	9,344
Tinnevelly	10,477	652	19,997	175	19,822	1,760	2,412
Malabar.. Wynaad Pálghat	20,801	4,218	20,943	5,480	15,463	1,060	5,278
Malabar.. Nilambúr	9,180	967	9,180	..	9,180	654	1,621
South Canara	743	108	839	26	813	135	243
Total ..	467,729	32,022	579,893	9,690½	570,502	11,482	43,504

The opening figures on 15th June 1885, both under area and cost, agree with the closing figures in the last annual report.

35. The area attempted to be protected during the year as compared with that attempted in the preceding season shows an increase of 103,171 acres (161·2 square miles). The particulars of the increase are as follow :—

District.	Particulars of Additions, &c.					
	New blocks brought under protection.		Additions or deductions of lands from existing areas.		Additions or deductions by reason of revision of areas, survey, &c.	Total area added or deducted.
	Number of block.	Area.	Number of block.	Area.		
		ACS.		ACS.	ACS.	ACS.
Chingleput	..	..	..	..	— 210	— 210
North Arcot	..	..	..	..	— 4,632	— 4,632
South Arcot	7	23,000	4 3	11,600 — 2,640	+ 115	+ 32,075
Salem	5	13,172	..	..	..	+ 13,172
Trichinopoly	4	17,000	..	..	..	+ 17,000
Madura	6	35,853	1	640	..	+ 36,493
Tinnevelly	2	9,520	..	..	..	+ 9,520
Malabar .. Wynaad and Pálghat ..	..	..	..	..	— 333	— 333
Malabar .. Nilambúr	..	..	..	..	— 10	— 10
South Canara	2	96	..	..	..	+ 96
Total ..	26	98,641	8	9,600	— 5,070	+ 103,171

The largest addition has, as in the preceding year, been made in Madura, principally under reserved forests. South Arcot comes next, the areas taken up being chiefly those notified under section 4 as proposed reserved forests. The tracts protected in Trichinopoly are proposed reserves on the Pachaimalais, which have long required special protection. The additions in Salem were in the Hosur range, and those in Tinnevelly were in Ambásamudram and Nángunéri. The net addition for the whole Circle during the year under report amounts to ·21 per cent. of the area attempted in the previous year, which indicates the increased energy displayed by Forest Officers in this most important branch of their profession. That their exertions were not in vain is further proved by the fact that the fires were not greater during the year than in the preceeding one, notwithstanding the considerable increase in area protected.

36. The fires during the year amounted to 9,691 acres out of 579,893 attempted, thus leaving at the close of the year 570,202 acres "actually protected," or in other words the protection afforded was successful in respect of more than 98 per cent. of the area attempted.

37. The comparison as regards cost appears also to be in favor of the year under report, in which 570,202 acres, or 891½ square miles, were protected for Rs. 11,484, whereas in the previous season 467,729 acres, or 731 square miles, cost nearly the same, viz., Rs. 11,422. In other words, the cost per acre during the year under report was nearly 4 pies or Rs. 13 per square mile, against 5 pies per acre or Rs. 16 per square mile in the preceding year. The results for the past year are, however, for only 9½ months as compared with those for 12 months in 1884-85.

If we add the expenditure for April and May and half of June gleaned from the classified abstracts we have—

	RS.
Expenditure entered in form No. 62 for 9½ months of the year ...	11,484
Add expenditure as per classified abstracts for April and May 1886 and half of June	3,686
Total ...	15,170

The cost per acre will thus be a little over 5 pies, or about Rs. 17 per square mile, which is not high considering the larger area newly brought under protection during the year, the initial or first year's expenditure being always more than that of succeeding years.

The total cost of fire protection from the commencement has been nearly Rs. 50 per square mile of protected area on 31st March last.

38. The largest fires in protected areas during the year occurred in Malabar (Wynaad and Pálghat), where 5,440 acres were burnt in Bégúr and 40 acres in Chenat Nair, or 5,480 acres in all. No less than four fires occurred in the Bégúr forest, of which one is reported to have been caused by the arrest and removal by the Mysore authorities of the fire patrols engaged in sweeping the Murkall fire-line and the consequent entry of fire from the Mysore forests. On this occasion 200 acres of the reserved forest were burnt. Other fires which occurred about the same time in compartments situated at a distance from each other are supposed to have been the work of incendiaries, who, it is suspected, were no others than the Kurumbers and Panniyars of Mysore, between whom and our fire-patrols (Wynaad Kurumbers) friendly feelings do not appear to exist. Arrangements have been made with the Mysore and Coorg authorities to secure better co-operation in future. A Mysore Panniyar who was found wandering in the reserve at the time of fire, and who could not give a satisfactory account of himself, and another found fishing without a license in the reserve at the same time were prosecuted. But the Magistrate, on conviction, fined the former annas 4 and the latter Rupee 1, though the damage by fire is assessed by the District Forest Officer at Rs. 10,000!

In the partially protected Kurchiyát block only one fire, which burnt about 1,920 acres, occurred.

Several fires were lit by incendiaries (Mulcers) in Chenat Nair forest, but all were extinguished with a slight damage to less than 40 acres of grass.

The next large fire occurred in Coimbatore (South) where the whole of the protected area in No. I reserved forest (2,630 acres), Tunacadavu range, was burnt by a fire which originated in the private forests of the Kollengode Nambidi and entered the Sangam block (of the Tekadi leased forest) protected by a fire-line 40 feet broad. The Ranger, who was on the spot at the time, attempted to arrest the progress of the fire by cutting and burning lines in front of it, but without success, as the whole forest was covered with thick dry grass 6 feet high and clumps of dead bamboos, burning splinters of which were carried across the lines by strong winds. Fifteen teak logs lying in the Sangam block at the time were completely burnt, and 58 logs slightly injured. These logs should have been collected in one place and fire traced before the fire season, but operations were delayed through the failure of a contractor and much sickness amongst the forest establishments. The inadequacy of a 40-feet line to check a forest fire was fully demonstrated; and we must, in future, have lines at least 150 feet broad in such localities, unless we can burn off the unprotected forest outside.

In the Madura district, 1,021 acres were burnt, viz.:—

		ACS.
(1)	In Pámbár reserved forest	46
(2)	„ Vannátipárai and Mela Gúdalúr blocks of Cumbum valley reserved forest	640
(3)	„ Púmbárai Villpatti reserved forest	30
(4)	„ Perumálmalai	300
(5)	„ Alagarmalai reserved forest	5
	Total ...	1,021

Nos. 1 and 5 were caused by incendiaries. No. 3 was the result of accidents in burning off fire lines by coolies. It ran over a large area, but the damage in reserved forest was only 30 acres. No. 3 fire from the Travancore hills crossed over fire-lines. It entered near Pappanani and burnt over 1 square mile in the extreme southern slopes of Cumbum valley reserved forest. The fire was got under with great difficulty. No. 4 was caused by some shikaries. It burnt over about 200 acres containing gall-nut trees and 100 acres bare grass-land.

The failures in South Arcot amounted only to 350 acres.

The 175 acres burnt in Tinnevelly occurred in a block on the Kalakád hills while fire-tracing. It was the result of a "head fire" caused by the high winds which prevailed at the time. The land being steep the fire was difficult to get under, but the burnt portion contained no saplings of valuable descriptions.

In South Canara the failures were 26 acres, *i.e.*, 21 acres in Sabládi, 2 acre in Pillarkhán and 3 in Poitaji and Káyarpalle, all caused by fires which originated outside.

In North Arcot 2 acres in Tellai reserve, Javádi hills, 3 in Peddúr (Palmanér range) and ½ an acre in Punganúr reserves, or 5½ acres in all have been entered under "Fires."

In Salem 1 acre in Singarampet reserved land and 2 acres in Karúr block reserved land, or 3 acres in all were burnt.

The results may on the whole be considered satisfactory.

(d) *Grazing.*

39. As promised in the last annual report the question of "Grazing" received special attention during the year. The Conservator's views on the subject generally are contained in his letter reporting on the scheme for light grazing in the State (reserved) forests printed with Board's Proceedings, dated 17th November 1885, No. $\frac{3141}{\text{Forest } 630}$. His proposals were briefly—

To leave sufficient areas of unoccupied unreserved land when available outside reserved forests for free pasturage of village cattle, and to permit limited or light grazing in reserved forests and lands not closed for reproduction, special fire protection, &c. The number of cattle to be so admitted was fixed at one head to 5 acres as a tentative measure, and the offer of the grazing on that basis and at normal rates is to be made in the first instance to resident and neighbouring cultivators, and only if they decline it to outsiders at enhanced rates. Goats and buffaloes to be excluded.

It is hoped that such measures, if carried out with tact and patience, will prove to the people the benefits of living near a reserved forest, and in time secure their co-operation in prevention of fire, illicit cutting, &c.

Detailed instructions to the above effect have been issued, and the Conservator has endeavoured to explain the scheme fully to the Forest Officers and people during his tours.

It will, of course, take time to make the villagers understand and appreciate the measures. So far the results are briefly as follows which cannot be considered encouraging.

40. In Coimbatore (South) the people were invited to state their requirements in the shape of grazing in the Bolampatti, Tadágam, and Bhaváni valley reserved forests, but few came forward, though the District Forest Officer personally visited the localities for the purpose of receiving their applications and arrange to meet them as far as possible.

In North Arcot, the people declined to avail themselves of any grazing in reserved forests if they had to pay anything for it, which, as the District Forest Officer remarks, proves pretty conclusively that they have really sufficient outside. When these people, however, are really prevented from pasturing their cattle, and see the pasturage leased out to others, they will probably come forward and avail themselves of the privilege offered to others of grazing, subject to certain conditions including the payment of moderate fees.

A certain measure of success appears to have attended the scheme in the Madura district, where the District Forest Officer had introduced it in the Cumbum valley reserved forests, and expresses the hope that, when fully understood, he will be able to extend it to other forests.

In Tinnevelly, on the other hand, the only result of allowing the cattle into the reserved forests has been the occurrence of fires in areas to which general protection has been more or less successfully extended for years. This has been brought to the Conservator's notice not only by the Sub-Assistant Conservator and the District Forest Officer, but by the Forest Settlment Officer, Mr. Pinto, now employed in the Tinnevelly district.

These people will have to be taught a lesson by the exclusion of their cattle for one or more seasons.

41. In most other districts grazing when permitted at all has been free and unrestricted, but as Government have recently sanctioned the maximum fees applicable to reserved lands, they will gradually be introduced mainly with a view of *regulating* the grazing and restricting the numbers by which we hope to improve the pasturage and to supply the necessary funds for pay of watchmen dividing the forests and grazing grounds into blocks, &c.

A commencement was made in the reserved lands of Coimbatore (North) towards the close of the official year, a small temporary establishment having been employed to census the cattle and collect the fees, ample provision being made for the exemption of ploughing cattle and milch cows of local cultivators pending the setting apart of free areas for their use.

A good deal of combined opposition to the payment of the grazing fees was experienced, which we believe was mainly instigated by a few influential village officers.

It will certainly die out if the Forest and Revenue Officers act with patience and forbearance as the fees are really absurdly low and payable chiefly by a class of graziers who make large profits by breeding cattle of which they have hitherto contributed nothing to the public revenues, whilst the cattle and herdsmen, in the absence of any restrictions, do incalculable harm by burning the grass and seedlings and tearing down branches in the most reckless manner for the sake of the leaves.

42. The grazing question is one of great public importance, and whilst it should be clearly understood that it must, when necessary, give way to the protection and improvement of the reserved forests, there is, in the Conservator's opinion, no reason why, by the exercise of care and judgment, the restrictions should not be reduced to a minimum, and our forest operations in India eventually conduce as much to an increased supply of good and cheap pasturage as of good and cheap timber, firewood, and other forest products.

43. The revenue collected in the shape of grazing fees during the year under report does not differ appreciably from that of the previous year.

(e) *Natural Reproduction.*

44. From careful personal inspection of forest areas in all districts under real protection, the Conservator can vouch for marked improvement in natural reproduction both from seed and coppice stools. It is only within the last three or four years that we have been placed in a position to enforce such protection by excluding cattle and fire, and the results are most satisfactory and encouraging.

In the case of the teak forest on the Anaimalais alone and especially in that of the Punáchi block, can the above not be said.

There has been an ample supply of seed from mature trees of Teak, Rosewood, and Véngai, and the seed has, as a rule, germinated well; but the seedlings, especially the teak, have almost all disappeared after promising well at the commencement.

This is very disheartening; but we must not and need not lose heart. The forest, especially the Punáchi block, has been burnt over annually and resorted to by thousands of cattle for many years. The soil, when the Conservator selected the Punáchi block for reservation seven years ago, resembled that of a high road, and it is only within the past four years that cattle and fires have been excluded, the result being a strong growth of coarse elephant grass which chokes all other growth.

Limited grazing must be tried over a portion of the area, the grass cut and burnt or placed in silos in another, and cultural operations, such as breaking up the soil and even dibbling in seedlings during the first rains, initiated over very limited areas to commence with.

The usual course of nature which has been interfered with for many years cannot be restored in a few weeks or months. We must endeavour to restore the soil to its natural state, create a humus or its Indian substitute and get rid of the rank growth of grass by degrees before we can hope to restock those denuded and mismanaged forests.

45. *Chingleput.*—The old stumps of Redwood in the Kámbákam reserved forest under special protection since 1883 have sent up strong shoots, the largest of which, four years old, measured 6 inches in girth at a height of 3 feet 6 inches from the ground. The area is also well stocked with self-sown seedlings of both Redwood and Tumba (*Shorea Tumbuggaia*).

North Arcot.—Reproduction in all the reserved forests is satisfactory, and the improvement is fully perceptible. The Napier, Mámandúr, and Carnatic Ghúr reserved forests are reported to be well stocked with seedlings of from one to four years old of fine straight healthy growth. In Punganúr and Palamadi reserved forests, the coppice growth, in some places, is excellent.

Reproduction in open or unreserved forests in this district is said to be better than formerly, which is attributed to better regulated fellings in recent years.

South Arcot.—The District Forest Officer offers no remarks with regard to the natural reproduction in the reserved forests of the district, but gives the names of some of the chief trees found in them. As regards unreserved forests, he is unable to report either favorably or to the contrary. Grazing is stated to have been a preventative to regrowth. In some tracts the growth of seedlings is found promising, while in many others not a seedling can be seen. The District Forest Officer, however, feels certain that an immense number exist under the thorny shrubs so common in the old reserves.

In the artificial forests of Nochikádu and Agaram, reproduction from coppiced stools of casuarinas has not been a success.

Salem.—Natural reproduction is stated to have somewhat improved in protected areas. That people begin to realize the advantages of such protection is illustrated by the fact that, on more than one occasion, the District Forest Officer has had applications from whole villages to reserve certain lands for the improvement of their grass and wood supply.

Trichinopoly.—Coppice growth of *Albizzia Lebbek*, *Cassia Fistula* and *Acacia arabica* has been good, but that of casuarinas a decided failure.

The exclusion of cattle from the newly-felled areas of the Coleroon plantations has produced good results in the shape of reproduction.

The same may be said with regard to the limited measures of protection afforded to certain areas on the Pachaimalais. The villagers at the foot, whilst protesting against the exclusion of their cattle, have not been slow to note and appreciate the improvement in the forest already apparent, which they assured the Tahsildar had already augmented the water-supply, or at least rendered it more regular, but this is probably imagination.

Tanjore.—The restricted cattle grazing has resulted in a marked improvement, especially in Vettangudi. Reproduction from coppice in the Point Calimere forest (reserved land) has been on the whole fairly good.

Coimbatore (North).—No remarks, the District Forest Officer having recently taken charge and having no areas under special protection except the small sandal-wood reserves in Kollegál and Satyamangalam.

Coimbatore (South).—The reproduction from seedlings, especially of teak, in areas specially protected against fire and cattle for the past five years is still unsatisfactory. The few seeds which manage to germinate are soon choked by the heavy undergrowth of grass. The Conservatór's recommendation that a limited number of cattle should be permitted to graze, under careful supervision, in the formerly closed areas will be adopted in 1886-87.

Reproduction from coppiced stools in the Shôlakarai block of the Bôlampatti reserved forest is all that can be wished for. Shoots, only seven months old, are five and six feet high on an average and are looking strong and healthy.

Madura.—The District Forest Officer writes:—"Generally throughout the district, but more specially in Pámbár, Alagarmalai, and Vannátipárai reserved forests, where cattle have been excluded and fire prevented, natural reproduction has been

greatly encouraged and the improvement in the vegetation on the hill sides is very marked indeed. Arankánal gallnut tree tract shows very satisfactory results from successful fire-protection extending over three years." The Conservator can fully corroborate the above after personal inspection.

Tinnevelly.—No remarks of any importance.

Malabar (Wynaad and Pálghat).—Reproduction from coppice in the felled compartments of Wálayár has been excellent, and numerous shoots are coming on.

In Chenat Nair, reproduction everywhere has been good and the young growth of Irul (*Xylia dolabriformis*) on the lower slopes is especially good. In Wynaad the favorable growth of young Rosewood and Véngai in Bégúr will certainly be injuriously affected by the disastrous fires which happened during the year.

Malabar (Nilambúr).—The growth from seeds and stools in Karimpóya block has been good; but the valuable descriptions of trees are very scarce. The Nellikóta block also exhibits a fine growth of saplings and stool shoots.

South Canara.—The reproduction from coppice at Poitaji cut in November 1884 is satisfactory. The old kumari forests in the Uppinangadi taluk afford a marked proof of the success with which *Xylia dolabriformis* reproduces itself by seed. *Macaranga tomentosa* comes up very thickly from seed in forest clearings, but it is not a tree of much value either for timber or other purposes.

(f) *Artificial Reproduction.*

46. The following is an abstract of Form No. 60 regular plantations:—

Districts.	On 1st April 1885.		Added or excluded during the year.		On 31st March 1886.	
	Area in Acres.	Cost.	Area in Acres.	Cost.	Area in Acres.	Cost.
		RS.		RS.		RS.
Chingleput	546·52	26,919	— 14 43	+ 1,393 — 234	532·09	28,078
North Arcot	1,553	97,367	+ 250	+ 6,814	1,803·	1,04,181
South Arcot	1,352·	81,975	+ 154·08	+ 7,939	1,506·08	89,914
Salem	..	..	..	..	..	..
Trichinopoly	3,707·11	73,208	+ 50·	+ 2,959	3,757·11	76,167
Tanjore	734·	5,444	..	+ 2,717	734·	8,161
Coimbatore (North)	177·	48,010	— 80·	+ 631 — 18,563	97·	30,078
Coimbatore (South)	19·5	4,402	..	..	19 5	4,402
Madura	35.64	7,456	+ 3·50	+ 278	39 14	7,734
Tinnevelly	537·	738	— 537·	— 738	..	..
Malabar (Wynaad and Pálghat).	41·50	2,620	..	+ 314	41·50	2,934
Malabar (Nilambúr)	3,435·98	6,58,616	+ 107·41 — 23 88	+ 4,820 — 4,50,711	3,519·51	2,12,725
South Canara	183½	18,509	+ 2·	+ 654	185½	19,163
Total ..	12,322·30	10,25,264	566·99 — 655·31	28,519 — 4,70,246	12,233·98	5,83,537

The area and cost on 1st April 1885 agree with those shown on 31st March 1885 in the last report. Of the 567 acres added during the year, only 310 acres are really extensions by new plantings, viz., 154 in South Arcot, 50 in Trichinopoly, 4 in Madura, 100 in Malabar (Nilambúr) and 2 acres in South Canara. The balance of 257 acres is composed of 250 acres in North Arcot, being area of "Tengal" plantation (replanted) omitted in the preceding year's return, but now included, and 7 acres in Nilambúr being the result of adopting survey map areas.

The decrease in area newly planted as compared with preceding year is chiefly due to restricted expenditure owing to financial pressure.

The total *minus* area of 655 acres consists of 14 acres area of Kattivák plantation in Chingleput clean felled and abandoned, 80 acres area of Talamalai sandalwood plantation in Coimbatore (North) virtually abandoned for some years, 537 acres in Tinnevelly transferred to "cultural operations," and 24 acres in Nilambúr, being reduction due to survey map areas having been adopted.

The actual cost during the year both upon extension and maintenance of existing plantations amounted to Rs. 28,519 as compared with Rs. 30,766 in the preceding year. The reduction in expenditure is principally due to the smaller area newly planted.

Of the *minus* sum of Rs. 4,70,246, Rs. 19,535 represents deductions in the three districts of Chingleput, Coimbatore (North) and Tinnevelly owing to the abandonment of the area upon which the expenditure was incurred in the two former, and to transfer of the plantation area and cost to "cultural operations" in the latter. The balance, Rs. 4,50,711, represents expenditure upon Nilambúr plantations since their commencement adjusted under other heads of A. "Conservancy and Works" than VIII (*d*) plantation and also under B. Establishments. This is now deducted from Form No. 60, so as to make the amount actually shown therein tally with the expenditure under sub-head A-VIII (*d*) in Form No. 64 both in the year under report and for former years. Separate accounts of all expenditure excluded are, however, being maintained as usual by the District Forest-officer, Nilambúr, for the purpose of ascertaining at any time the exact financial results of the plantations.

The net results on 31st March 1886 under regular plantations show a planted area of 12,234 acres at a cost of Rs. 5,83,537, or about Rs. 48 per acre on an average. These results, as compared with those arrived at on 31st March 1885, are, of course, considerably affected by the large deduction made in the total cost of the Nilambúr plantations as explained in the preceding paragraph.

47. In accordance with the estimates duly sanctioned by Government (Board's Proceedings, No. $\frac{3205}{\text{Forest 645}}$, dated 23rd November 1885), 100 acres in Nilambúr have been cleared and prepared for planting with teak for coppice and Mahogany standards, the nurseries for which were fully stocked at the close of the official year. "Superior" and "measurable" saplings from Nilambúr are not in so much demand, and do not realize such good prices in comparison to their size as those of the smaller descriptions; but the demand on the whole is excellent and in excess of the supply. We propose to meet it by the extension of planting under "the coppice (teak) with standards (Mahogany)" system.

It is proposed to extend the padugai (river bank) plantations in Trichinopoly which have proved so successful, and to extend operations to similar areas in Tanjore. The casuarina plantations in South Arcot will also be steadily extended as funds admit.

The receipts by sales from plantations as distinct from natural forests are not now separately exhibited; but the results continue to more than justify our expectations.

In North Arcot, the Vanavedu plantation consisting of 31 acres of casuarina wood about 17 years old realized Rs. 3,940, or Rs. 131 per acre; whilst in South Canara, one acre of casuarina, about 12 years old, realized Rs. 620, all expenses of felling, conversion, and removal being in both cases borne by the purchasers.

48. *Cultural operations.*—The following is an abstract of cultural operations:—

District.	On 1st April 1885		Added or excluded during the year.		On 31st March 1886	
	Area.	Cost.	Area	Cost.	Area.	Cost
	ACS.	RS	ACS.	RS.	ACS.	RS
South Arcot	1,155	229	..	..	1,155	229
Trichinopoly	Miles 100	26,339	..	629	Miles 100	26,968
Tanjore	824	286	20	239	844	525
Tinnevelly	..	..	537	738	537	738
Total ..	1,979 100 miles of channel banks	26,854	557	1,606	2,536 100 miles of channel banks	28,460

The opening balance on 1st April both under area and cost agrees with the closing balance shown in the last report. The only addition during the year was in Tanjore, that shown against Tinnevelly being merely old areas (*e.g.*, the Kudiraimalai Teri, &c.)

transferred from "Regular plantations" in that district. The actual expenditure during the year amounted to only Rs. 868, that entered against Tinnevelly being the cost in previous years of the area transferred from "regular plantations."

The total area on 31st March 1886 is 2,536 acres and 100 miles of channel banks at a cost of Rs. 28,460, or about Annas 9 and Pies 5 per acre and about Rs. 270 per mile, respectively, compared with 1,979 acres and 100 miles of channel bank at a cost of Rs. 26,854 or Annas 4 and Pies 2 per acre and Rs. 263 per running mile as per last year's report.

49. The most important cultural operations during the year were those connected with the reclamation and planting of sandy wastes or "Teris" in Tinnevelly.

In the Kudiraimalai Teri 75,000 palmyra nuts were put down over an area of 110 acres, and 210 measures of seed of Odai (*Acacia planifrons*) were dibbled in over an area of 2 acres. The palmyras are reported not to have germinated well for want of sufficient rain, but those sown in former years are generally in a flourishing condition. These operations will be steadily extended.

50. *Topes.*—In Form No. 61 the topes are entered range by range for each district as recently sanctioned by Government. The following is an abstract thereof:—

District.	Number.	Area.	Cost	
			During year.	To end of year.
			RS.	RS.
Chingleput	7	79	242	7,278
North Arcot	663	653	875	875
South Arcot	94	394	..	8,712
Salem	228	2,564	5,359	1,90,140
Trichinopoly	16	62	56	1,714
Tanjore	16	153	..	..
Coimbatore (North)	183	14,022	175	28,561
Coimbatore (South)	8	113	221	5,737
Madura	21	99	1,294	11,894
Tinnevelly	30	108	432	3,629
Malabar { Wynaad and Pálghat.	3	5	386	1,374
Malabar { Nilambúr	..	..	..	..
South Canara	..	..	..	..
Total ..	1,269	18,252	9,040	2,59,914

As compared with the figures in the last report, the increase of 79 in the number of topes occurs in North Arcot, but the District Forest-officer is unable to state the corresponding increase in area which should be ascertained. There is an increase of 19 acres in total area (9 in Salem and 10 in Coimbatore, North,), but it is merely due to errors detected in the last report having been rectified. The increased cost during the year is due to expenditure in North Arcot, not separately given last year having been included this year, and to a heavy charge for tope watchers in Madura adjusted under A-VIII (*f*) in the preceding year having been rightly included under A-VIII (*d*) in the year under report.

The total cost up to the end of the year is made up as follows :—

	RS.
Cost as per last report	2,42,131
Cost up to the end of last year in South Arcot, now ascertained and included	8,712
Owing to rectification of errors in total last year—Salem.	+ 141
Do. do. Coimbatore (North).	— 110
Cost during the year	+ 9,040
Total ...	2,59,914

Cost per acre up to date is about Rs. 14.

The neglected state of the topes in some districts attracted the attention of the Conservator during the year and was brought to the notice of the Collector and District Forest-officer with, it is understood, good results.

Village officers must be held responsible for the care of such things, although they are managed in the Forest and not in the Revenue department.

51. The following is a summary of results under this section :—

District.	Area on 31st March 1886.,				Actual cost during 1885-86.	
	Regular plantations	Cultural operations	Topes.	Total.	Regular plantations.	Cultural operations.
1	2	3	4	5	6	7
					RS	RS
Chingleput	532	..	79	611	1,393	..
North Arcot	1,803	..	653	2,456	6,814	..
South Arcot	1,506	1,155	394	3,055	7,939	..
Salem	..	..	2,564	2,564	..	..
Trichinopoly	3,757	Miles 100	62	3,819 Miles 100	2,959	629
Tanjore	734	844	153	1,731	2,717	239
Coimbatore (North)	97	..	14,022	14,119	631	..
Coimbatore (South)	19	..	113	132	..	..
Madura	39	..	99	138	278	..
Tinnevelly	..	537	108	645	..	..
Malabar { Wynaad and Pálghat	41	..	5	46	314	..
Malabar { Nilambúr	3,519	..	..	3,519	4,820	..
South Canara	185	..	..	185	654	..
Total ..	12,232	2,536 Miles 100	18,252	33,020 Miles 100	28,519	868

District.	Actual cost during 1885-86.—*continued*		Cost up to the end of the year 1885-86.			
	Topes	Total	Regular plantations.	Cultural operations	Topes.	Total.
	8	9	10	11	12	13
	RS	RS.	RS	RS	RS	RS.
Chingleput	242	1,635	28,076	..	7,278	35,356
North Arcot	875	7,689	1,04,181	..	875	1,05,056
South Arcot	..	7,939	69,914	229	8,712	98,855
Salem	5,359	5,359	..	..	1,90,140	1,90,140
Trichinopoly	56	3,644	76,167	26,968	1,714	1,04,849
Tanjore	..	2,956	8,161	525	..	8,686
Coimbatore (North)	175	806	30,078	..	28,561	58,639
Coimbatore (South)	221	221	4,402	..	5,737	10,139
Madura	1,294	1,572	7,734	..	11,894	19,628
Tinnevelly	432	432	..	738	3,629	4,367
Malabar { Wynaad and Pálghat	386	700	2,934	..	1,374	4,308
Malabar { Nilambúr	..	4,820	2,12,725	..	..	2,12,725
South Canara	..	654	19,163	..	..	19,163
Total ..	9,040	38,427	5,83,537	28,460	2,59,914	8,71,911

The total expenditure on regular plantations, cultural operations and topes during the year was Rs. 38,428 as entered in Form No. 64 which agrees with the amounts adjusted in the Examiner's office under the head A-VIII (*d*), Plantations.

52. The Conservator is, however, unable to give the assurance suggested by the Board in reviewing last year's report, that the figures as regards area and cost are even approximately correct. He can speak with some confidence as regards the old plantations of the Forest department, for which regular accounts have always been maintained, but not with regard to the plantations and topes inherited from the late Jungle Conservancy fund, the accounts for which are either not forthcoming or inaccurate.

District Forest-officers are endeavouring to ascertain and demarcate the actual areas and arrive at an approximate idea of the cost from the taluk records; but as both they, their range officers, and the tahsildars have their hands full with other work, this is no easy matter. It is however hoped that they will be able to arrive at sufficiently reliable figures during the current year which can be adopted and adhered to in future

(g). *Works of improvement.*

53. Works of improvement, such as construction of roads and buildings, &c., are treated of under other sections of this chapter specially intended for them. There is therefore very little to say under this head, except to allude to the work of fencing of reserves and miscellaneous works of improvement undertaken in the several districts which were as follow :—

District	Description of work.	Number of miles	Cost.
			RS
South Arcot	(1). Construction, of stone wall as fencing on one side of Annámalai	4	2,000
Coimbatore (North)	(1). Digging around and fencing block No. II of Archalúr village	$2\frac{5}{8}$	304
	(2). Fencing Ellapálaiyam reserve	$\frac{3}{8}$	22
Malabar (Wynaad and Pálghat) ..	(1). Fencing the botanical garden at Manantoddy and digging a ditch.	$1\frac{17}{64}$	329
	(2). Fencing and digging a ditch on both sides of the right of way from Wálayár village to Nadupadi forest from the Wálayár Railway station to the Pálghat-Coimbatore road.	$3\frac{143}{288}$	644
	Total ..	11·55	3,299

Besides the above the usual cutting of creepers, lopping and trimming and pruning of trees in plantations, and other miscellaneous forest work has more or less received attention in all districts.

The drains in the old screw-pine swamp at Manantoddy were deepened, and it is gradually being reclaimed and converted into a flourishing sugar-cane garden.

(h) *Experiments and exotic trees.*—

54. Experiments with exotics were carried on as usual during the year, the District Forest Officers evincing considerable interest in them. The following are amongst the most important.

Mahogany.—Last September this seed was distributed by Mr. Lawson, Director of Government Cinchona Plantations, &c., to the marginally-noted officers, and in their Proceedings, dated 7th November last, No. $\frac{3074}{\text{Forest 610}}$, the Board of Revenue called upon the Conservator to report on the results of the experiments.

H. L. Wooldridge, Esq.—South Arcot.
H. A. Gass, Esq.—Madura.
C. E Brasier, Esq.—Tinnevelly.
T. J. Ferguson, Esq.—Calicut.
J. Cameron, Esq.—Bangalore.
J. Steavenson, Esq.—Madras.
Colonel I. Campbell Walker—Ootacamund.
W. FitzGerald, Esq.—Travancore.

In South Arcot, only a few seeds germinated, but the seedlings are reported to be thriving well. In Madura, the seeds appear to have germinated admirably, and the young plants which have now all been transplanted into pots have grown very well. In Tinnevelly also the seeds have germinated and the plants are being distributed for planting in different places. In Travancore, Mr. FitzGerald appears to have distributed the seed among three other gentlemen, retaining some quantity himself. He raised 96 plants which are strong and healthy, while of the three other gentlemen, two have raised 20 and 6 plants, respectively, which are doing well, and the third states that he cannot give the result, having only recently sown the seeds.

In Bangalore, Mr. Cameron has raised 200 seedlings which have been potted off and are five inches in height.

Of the seeds received by Mr. Steavenson, 2,149 have germinated and the young plants are nearly ready for distribution. No report has been received from Mr. Ferguson. The seed supplied to the Conservator was handed over to Mr. Hadfield and has germinated splendidly at Nilambúr. So far as the results go, the experiment promises well, but it is too early to say whether it has succeeded or not.

During the year 168 mahogany seeds were obtained elsewhere and sown in the Vettangudi plantations by the District Forest officer, South Arcot. Eighty-five germinated, of which nine have died and the surviving 76 seedlings are from 12 to 21 inches in height.

Twelve mahogany plants were planted in Chingleput cusbah tope during the last rains. They are healthy and vigorous.

Eucalyptus seeds of three * sorts were received from the Director of Revenue Settlement and Agriculture and distributed to the marginally-named districts.† In North Arcot the seeds have germinated and the seedlings look healthy. In Tinnevelly one species germinated, while in Coimbatore (South) the seedlings have all died off before attaining the height of one inch No report has been received from South Arcot.

* Eucalyptus Planchoniana.
Do. Microcorys.
Do. Baileyana.

† North Arcot. | Coimbatore (South.)
South Arcot. | Tinnevelly.

In Tinnevelly the District Forest officer tried 10 species of eucalypti and found *Rostrata* and *Citriodora* thrive well in the ghât forests of the district.

In Coimbatore (North) the *Eucalyptus Citriodora* at Talamalai referred to in the report for last year is thriving. There are 25 plants.

Pinus Australis.—Some quantity of this seed was received from the Conservator, Northern division, and tried in the districts of Chingleput, Tinnevelly and South Canara without success. In South Arcot, however, 9 seeds germinated in rich alluvial soil near the Vellar river bank and the seedlings look healthy.

Pithecolobium Saman.—In North Arcot 4,000 or 5,000 plants were raised and planted out at Kilminnel and Tiruvallam. They are doing well.

Manilla hemp (*Musa Textalis*).—Shoots were received during the year and 40 of them planted in Kulitalai and 10 in the compound of the District Forest office, Trichinopoly. There were only five casualties in all and the plants are vigorous and healthy, the stems being 4 to 5 feet in height on an average.

Phœnix dactylifera (*date palm*).—In the Tanjore district there was one casualty during the year at Védárnyam. The number of trees in the Vettangudi plantations is 177 and not 120 as reported last year. The condition of the trees in the above plantations was fully reported on by the Collector in his letter embodied in Board's Proceedings, dated 30th March 1886, No. $\frac{764}{\text{Forest 149}}$. Further experiments with seed and offshoots are being made, and there is every reason to anticipate success.

Rhus vernicifera (*Japanese lacquer tree*).—Of the two plants reported to be alive last year in Madura one has since died, and the survivor is only 1½ inches high.

Evodia meliæfolia (*Maipak*) seed was tried in Madura and Wynaad and Pálghat at the request of the Conservator, Northern division. It germinated indifferently in the former district. In the latter it totally failed, and the District Forest officer suspects that it was on account of the seed having been bad. Seed was distributed also to South Arcot and Nilambúr, but no report has been received from the District Forest officers.

In the botanical garden at Manantoddy, a large number of timber and fruit trees have been planted during the year and reported to be growing well.

The Giant Bamboos (*Dendrocalamus Brandisii*) have made the most remarkable growth. The bamboos promise well generally. About two acres were planted with giant bamboos and mahogany.

Three plants of *Hevea Braziliensis* were received from Mr. Ferguson, of Calicut, and are growing well. The Castilloa planted out in September grew vigorously, but was eaten down by stray cattle, and, though alive, it has as yet shown no signs of recovery.

The reclaimed swamp at the bottom of the hill was planted with sugar-cane and produced a splendid crop.

The experimental cultivation of the rubber plants through private agency has been ordered to be discontinued.

The experiments with exotics at Nilambúr continue to prove successful and are both interesting and instructive. Mr. Lawson visited the plantation during the year and was much pleased with the growth of the ipecacuanha. The District Forest officer sends the usual statements showing comparative growth of the mahogany trees and South American Indian rubbers. The former will be found below with the District Forest officer's notes regarding the Landolphia, &c.:—

"The following statement shows comparative growth of a few of the largest mahoganies, of which there are about 3,000 now alive out of those planted in 1878 and 1879 in Ayiravillikava and Ramalur. About 1,000 died last year and about 100 died this year having been repeatedly attacked by the borer (Family Pyralidace) :—

When planted.	Number.	Height when planted.	Measurement in April 1885.			Present measurement.		
			Height.	Circumference.		Height.	Circumference.	
				At base.	Five feet up.		At base.	Five feet up.
		INCHES.	FEET.	INCHES.	INCHES.	FEET.	INCHES.	INCHES.
September 1873	1	Situ	67	50	37	69	52	41
June 1878	2	6	28	20	15½	30	21	16½
October 1879	3	6	19	11¾	8	19½	12	8
	4	6	19	12½	9¾	20½	14½	11¾
	5	6	20	15¾	10½	25	17½	12½
	6	6	21	12½	9	23	16	15
	7	6	20	16	12¾	23	18	14¾
	8	6	18	12	10	20	15	11

No. 1 is an exception. It is a magnificent tree in the Chathamboria teak plantation of 1873.

"*The South American India Rubber.*—These have ceased to be experiments from last year as they have established themselves. We have trees 8 years' old which yield very little milk when tapped. The Cearas planted in 1878, 1880 and 1881 seeded for the past few years. About 200 seers of seed were collected last year, and this will be sent to Mr. Morgan, District Forest officer, Wynaad and Pálghat, as he has applied for the same.

"*Landolphia Florida.*—The existing 1 plant now measured 18′—5″ showing a growth of 11′—11″ since last annual report.

"*Cephaelis Ipecacuanha.*—There are in all 23 plants now, 4 of which are sickly, and I don't think they will come to anything. Nineteen are doing fairly well.

"Professor Lawson, the Director of Government Cinchona Plantations, on his return from Calicut lately stayed a day at Nilambúr and inspected the exotic plantations. He was surprised to see the ipecacuanha plants doing so well.

Yellow Bamboos.—This clump is doing very fairly. I tried 12 cuttings from it this year, of which only two came on. As far as I have seen, this bamboo does not compare favorably in the size of its culms with the indigenous species.

"*Giant Bamboo* (*Dendrocalamus Brandisii*).—This clump is growing luxuriantly and the root stock planted out year before last is also doing fairly well in the bungalow compound."

(i) *Communications and Buildings.*

55. The following statement exhibits the important roads and bridges, constructed and repaired during the year :—

Roads.

District.	New Roads.	Cost.	Repairs.	Cost.
		RS.		RS.
Chingleput	Construction of portion of Kámbákam road.	216	....	..
North Arcot	....	..	Repaired all existing roads	371
South Arcot	(1). Nochikadu plantation tramway, 1½ miles.	847	Repairs, &c.	5
	(2). Bridle road up the Ténmalai, 1½ miles.	477	....	..
Salem	....	..	Repairs of Ayyúr Melgiri road	103
Coimbatore (South)..	Certain new paths and old roads opened out.	324	(1). Repairing the road from Vellaragu Adiváram to Sangam, 8½ miles, and repairing 45 bridges.	1,245
			(2). Two miles bridle-path from Tunakadavu river to Poonáchi.	657
Tinnevelly	(1). Construction of two bridges on the Kalakád ghât road.	368	Repairing Kalakád ghât road	121
	(2). Reclearing 2½ miles of Vásudévanallúr ghât road.	147	....	..
	(3). Tracing of 3 miles of road up the Kadayanallúr ghât.	298	....	..
Malabar, (Wynaad and Pálghat).	A drag-path of 1,200 yards long and 6 feet broad in the Chenar river.	25	....	..
	Total ..	2,702	Total ..	2,502

Expenditure on petty repairs, &c., is omitted in the above abstract. Fair progress has been made in Tinnevelly in the tracing and construction of new roads. In

almost all other districts the outlay has been principally on repairs. Rs. 7,000, or nearly two-thirds of the budget allotment, has been expended in the whole circle, which is satisfactory.

56. *Buildings.*—The following statement exhibits the buildings constructed, &c., during the year so far as they are ascertainable from district reports :—

District	New buildings		Cost	Repairs to existing buildings	Cost
			RS		RS
Chingleput . .	....			Repairing forest bungalows at Kámbákam and at Maiyúr plantation and 3 tannah sheds	71
North Arcot ..	Construction of temporary out-houses at Mandaparai		300	Repaired and whitewashed all existing buildings	771
South Arcot .	Completion of Ténmalai rest-house .		250	Repairs, &c ..	103
Salem . ..	....		..	Repairing Mallapuram and Hasthampatti bungalows and Tirupatur and Námakal Range offices	785
Trichinopoly	Tool-sheds one at Lálápet and the other at Kattalai		160	Three bungalows repaired and whitewashed	75
Coimbatore (North)	Three camp huts completed at Tellamalai, Pámarakarai and Guttiai úr		..	Repaired sandalwood store at Satyamangalam and a thatched building in Bilur	
	A small thatched building erected in the Ellapalaiyam reserve in Erode		..	....	
Coimbatore (South)	A bungalow and ranger's house at Mount Stuart in course of construction		..	....	
	A Forester's house at Sétumadai ..		..	....	
	Two Forest guards' houses and 2 tannahs completed		..	...	
*Madura	(1). One bullock shed at Kodaikánal ..		90	Ranger's office, Periyakulam, and depôt-keeper's house	..
	(2) Three rest-houses		195	....	
	(3) Five tannadars' huts..		75	.. .	
Tinnevelly	Construction of a new compartment to the depôt at Ambásamudram		124	Repairing the rest house and tannah station	362
				Repairing the walls of the depôt compound at Ambásamudram	18
		RS A P			
Malabar (Wynaad and Pálghat)	*Permanent* —One main building with portico and glazed verandah and stables, a forester's serambi and elephant shed at Begúr and huts at Kuppadi and Karimalai	3,114 0 0		....	
	Temporary —Two elephant sheds and two punthis at Chedlet and Bégúr and a cattle shed at Bégúr	288 6 7		....	
			3,402		
South Canara ..	(1). Tanna station at Jeppu . .		75		
		Total .	4,671	Total ..	2,185

Considerable progress has been made in Malabar (Wynaad and Pálghat) and in Coimbatore (South) in the construction of new buildings. The budget allotment, Rs. 13,846, has been exceeded by Rs. 225 for the whole circle, which has been met by transfers (savings) from other heads of expenditure.

CHAPTER V.

YIELD AND WORKING.

Section I—Departmental operations.

57. The annual timber returns received from some districts are in many instance carelessly and erroneously prepared, which has involved much heavy work in the Conservator's office in order to reconcile the entries.

Under the present system, the Conservator knows nothing of the monthly timber and stock returns which go to the Examiner, whilst the Examiner's office is not charged with the checking and compilation of the annual statements. This will have to be altered and the Account office be required to furnish Conservators with correct and accepted figures as for the financial results (forms Nos. 64, 65 and 66).

58. The following is an abstract of Form No. 68 compiled as accurately as practicable :—

Number of trees felled by Government agency.

Selection fellings—	NO.
Teak	1,873
Blackwood	79
Véngai	299
Red Sanders	3
Miscellaneous timbers	8,887
Sandalwood	40

These results cannot, with any degree of fairness, be compared with those of the past year, as they do not fully represent the year's operations.

1,396 teak trees were felled in Wynaad and 223 in Nilambúr and 85 in Coimbatore (South). Seventy-one trees of Rosewood in South Canara, 5,100 timber trees of miscellaneous descriptions in Chingleput, and 238 of Véngai in South Arcot appear to have been cut during the year. In the last-named district, 40 Sandalwood trees were felled. In Coimbatore (North) there have been no departmental felling operations during the year (except 9 teak trees).

59. Form No. 69 shows the timber and other produce cut and collected by Government agency and their disposal by sale, removal to depôts or otherwise. The following abstract exhibits the quantities of the several descriptions of produce collected during the year :—

District.	Teak.	Blackwood	Véngai.	Red Sanders.	Miscellaneous timber	Sandalwood.	Fuel.		Minor produce.		Bamboos
	C. FT.	C. FT.	C. FT.	TONS. LB.	C. FT.	TONS. LB.	TONS.	LB.	TONS.	LB.	No.
Chingleput	..	..	..	155½	..	..	..		..		..
North Arcot ..	..	..	..	121	..	11 812	1,956	1,458	0	50	..
South Arcot ..	..	..	1,393	..	6,680	2 376½	920	378	6	1,324	..
Salem	..	..	78½	..	1,995⅝	9 2,199	..		0	32	..
Trichinopoly ..	..	..	..	..		..	3,205	551	2	160	515
Coimbatore (North)	40½	..	..	..	..	0 1,995	..		..		..
Coimbatore (South)	11,789	..	..	..	325	.	471	0	8	1,820	2,000
Madura	..	..	200	..	91	..	306	853	3	537	..
Tinnevelly ..	..	..	..	..	3,346	..	..		14	804	..
Malabar. Wynaad and Palghat.	58,281	5,067	1,110	..	6,150	..	3,230	0	0	502	36,457
Malabar. Nilambur ..	12,774	663	6,968	..	20,324	..	11	1,120	..		25,256
South Canara ..	825⅝	..	..	..	..	..	32	1,120	33	105	..
Total ..	83,713¼	5,730	9,749⅝	274½	47,911⅝	24 902½	10,133	1,000	68	854	64,228

60. In accordance with Board's Proceedings, dated 15th December 1884, No. $\frac{4317}{\text{Forest } 452}$, specimens of timber were sent to the Superintendent of Public Works Workshops from the districts of Tinnevelly, Madura and Salem, and presumably from Malabar and Coimbatore. The result of experiments to test their value is not known. There has been hardly any supply to the Public Works Department, the rates offered by them being below those obtainable in the open local markets. In Trichinopoly 55 casuarina trees, 195 casuarina poles and 28 babul logs were supplied.

The Executive Engineer, Presidency division, offered to take 5,900 cubic feet of timber, but cancelled the indent, the works for which it was required having been held in abeyance.

61. *Fuel.*—The collection of fuel amounted to 10,133 tons and 1,000 lb., which together with the opening balance of 401 tons and 2,182 lb., amounted to 10,535 tons and 942 lb.; 1,683 tons and 257 lb. were removed to sale depôts, 5,321 tons and 854 lb. sold locally and 2,636 tons and 1,140 lb. to the Railway Companies.* The balance in the forests was 894 tons and 931 lb. The largest quantity was collected in Wynaad and Pálghat division and Trichinopoly.

	TONS.	LB.
* Madras Railway	900	1,493
South Indian Railway ...	1,735	1,887

62. *Bamboos.*—64,228 bamboos were cut and collected during the year chiefly in Wynaad, Pálghat and Nilambúr; 20,170 were removed to sale depôts, 24,081 sold and 19,977 left in the forests.

63. *Minor produce.*—The departmental collections of the year, as far as can be ascertained from the returns, were 68 tons and 854 lb. which, added to an opening balance of 1 ton and 1,974 lb., gives 70 tons 588 lb. 53 tons and 1,439 lb. were sold, 14 tons 1,174 lb. removed to depôts, &c., and 2 tons 215 lb. left in forests.

64. Form No. 70 shows the receipts and issues of timber and other produce in and from sale depôts. The following is an abstract of the year's operations in the whole circle :—

Description.	On hand at beginning of year.	Received in depôt.	Sold in depôt or otherwise disposed of.	Balance at close of year.
	C. FT.	C. FT.	C. FT	C. FT.
Teak	10,572 4/17	16,993½	17,895½	9,670¾
	NO.	NO.	NO.	NO.
Teak saplings	839	53,641	54,361	119
	C. FT.	C. FT.	C. FT	C. FT.
Black or Rosewood	6,163	685½	2,472	4,376½
Véngai	2	7,747½	7,671	78½
Miscellaneous timbers	1,359½	3,853 1/3	36,350 7/17	3,540¼
	TONS. LB.	TONS. LB.	TONS. LB.	
Red sanders	95 1,960	121 0	216 1,960	..
				TONS. LB.
Sandalwood	51 1,229	23 342½	59 1,159½	15 402
Fuel	303 274	1,683 257	1,641 170	345 361
	NO.	NO.	NO.	
Bamboos	105	20,170	20,275	..
	TONS. LB.	TONS. LB	TONS. LB.	TONS. LB.
Minor produce	11 358	14 1,075 29/40	25 707 29/40	0 726

Of teak, 5,112 and 12,774 cubic feet were sold in Wynaad and Pálghat, and Nilambúr, respectively, while of véngai 6,968 cubic feet and 703 cubic feet were sold in Nilambúr and South Arcot, respectively; 29,324 cubic feet of miscellaneous timbers were sold in Nilambúr and 2,769 cubic feet in South Arcot. The largest sales of fuel were in Trichinopoly, amounting to 1,189 tons and 1,655 lb., chiefly to the South Indian Railway Company.

Of the minor produce, a quantity of 24½ tons of gallnuts (Beleric myrabolams) collected in the Tinnevelly district was shipped to London to ascertain the market-value; the result is not yet known.

65. Form No. 71 shows the particulars of sales from the forests as well as from depôts and the amounts realized. The following is an abstract of the amounts realized under each budget sub-head as compared with 1884-85 :—

Particulars.	1885-86.		1884-85.	
	Sold from forests.	Sold from depôts	Sold from forests.	Sold from depôts.
	RS. A. P.	RS. A. P.	RS.	RS.
I (a)	39,185 12 3	95,495 9 4	1,02,705	38,075
I (b)	23,809 15 1	6,967 0 9	3,865	23,570
I (c)	476 2 2	668 6 0	1,154	154
I (d)	2,300 0 0	13,972 2 11	8,586	7,221
I (e)	13,263 14 4	44 6 9	19,458	9,125
Total ..	79,035 11 10	1,17,147 9 9	1,35,768	78,145

The decrease of Rs. 17,730 is owing to the restricted collection of sandalwood and minor produce by departmental agency and to our officers having been chiefly engaged in demarcation and settlement work.

66. Subjoined abstract exhibits the operations of the year under timber and other produce embracing the quantities collected and sold in the forests as well as those received into depôts and sold therefrom :—

—	Teak.	Teak saplings	Rosewood.	Véngai.	Miscellaneous timbers.	Redwood.	Sandalwood.	Fuel.	Bamboos.	Minor produce
	C. FT.	NO.	C FT.	C. FT	C. FT.	TONS. LB.	TONS. LB.	TONS. LB.	NO.	TONS. LB
Balance on 1st April 1885	31,256	10,082	7,372	1,511	5,931	95 1,960	51 1,229	705 216	105	13 92
Collected during the year	83,713	51,504	5,730	9,749	71,586	274 747	24 902	10,133 1,000	64,228	68 854
	1,14,969	61,586	13,102	11,260	77,517	369 2,707	75 2,131	10,838 1,216	64,333	81 946
Sold in forests ..	48,229	..	5,018	2,051	12,398	153 747	1 560	5,321 854	24,081	53 1,439
Sold in depôts ..	17,895	54,080	2,472	7,671	34,604	216 1,960	59 497	1,595 646	20,110	0 233
Otherwise disposed of.	589	281	..	961	3,647	..	0 672	2,682 664	165	25 573
	66,713	54,361	7,490	10,683	50,649	369 2,707	60 1,729	9,598 2,164	44,356	79 5
Balance on 31st March 1886	48,256	7,225	5,612	577	26,868	..	15 402	1,239 1,292	19,977	2 941

67. Form No. 73 exhibits the difference in value between the stock on hand at the beginning and close of the year in sale depôts. Subjoined is an abstract thereof:—

District.	Valuation of stock		Difference	
	At the commencement of the year	At the close of the year.	In favor of the year	Against the year.
	RS	RS.	RS.	RS.
Chingleput	.	..	..	..
North Arcot	2,487	1,230	..	1,257
South Arcot	225	446	221	..
Salem	15,215	1,322	..	13,893
Trichinopoly	107	312	205	..
Tanjore	..	..	.	..
Coimbatore (North)	..	279	279	..
Coimbatore (South)	11,067	8,728	..	2,339
Madura	469	265	..	204
Tinnevelly	547	1,389	842	..
Malabar.. Wynaad and Pálghat ..	..	..	..	..
Malabar.. Nilambúr	1,404	56	..	1,348
South Canara	1,262	1,992	730	..
Total ..	32,783	16,019	..	16,764

68. The annual return of stores (No. 16) is not submitted for the year under report as the compilation of one as required by the Board is not possible in the present state in which this form is received from district officers. The opening balances in most cases do not agree with the closing balances of the previous year. The rates and value are either not given or given incorrectly. The form itself is defective and not suited as an appendix to the annual report. A revised form No. 73 B has been proposed for adoption by the Code Committee and is now with the Forest Member of the Board. The return for the current year will, it is hoped, be submitted in the new form.

Section 2—Removals of produce by purchasers.

69. Form No. 72 shows the produce cut, collected and removed from forests by consumers or purchasers, of which the following is an abstract:—

District.	Timber (Miscellaneous).		Firewood		Bamboos.			Minor produce.	
	C FT.	NO.	TONS.	LB.	TONS.	LB.	NO	TONS.	LB.
Chingleput	87,050	..	11,851	1,120	..		196	29	1,120
North Arcot	3,68,872	540	39,066	379	4,509	0	..	793	560
South Arcot	23,616	586	6,265	0	1,349	0	12	2,040	672
Salem	1,16,106	..	24,244	1,568	11,144	336	..	..	
Trichinopoly	39,468	..	8,983	1,485	1,452	224	637	485	1,568
Tanjore	..	..	..		..		..	..	
Coimbatore (North)	46,797	..	5,638	0	3,419	0	..	..	
Coimbatore (South)	53,147	..	11,319	0	3,027	1,120	..	..	
Madura	92,516	..	15,194	728	846	224	..	7	1,736
Tinnevelly	25,958	..	2,494	2,120	..		..	..	
Malabar Wynaad and Pálghat	..	..	..		..		..	242	0
Malabar Nilambúr	..	..	..		..		13,022	..	
South Canara	772	..	7,523	0	..		53,998	..	
Total ..	854,302	1,126	132,580	680	25,746	1,904	67,865	3,598	176

The sales of miscellaneous timbers and firewood exceed those of 1884-85 by 195,152 cubic feet and 1,600 tons, respectively.

Ten thousand three hundred and ninety-six tons and 388 lb. of engine fuel were supplied to the Madras Railway Company in the districts of North Arcot and Salem, realizing Rs. 19,557 as seigniorage against 5,636 tons and Rs. 10,291, respectively, in the preceding year.

70. The subjoined statement exhibits the financial results under each sub-head as compared with 1884-85:—

	1884-85.	1885-86.
	RS.	RS.
II (*a*)	66,010	72,864
II (*b*)	1,39,750	1,65,332
II (*c*)	57,835	57,395
II (*d*)	8,227	7,914
II (*e*)	1,19,862	1,35,443
Total ...	3,91,684	4,38,948

The revenue of the year under report under this section exceeds that of 1884-85 by Rs. 47,264. The increase is mainly due to larger removals of firewood and minor produce on seigniorage, the result of greater facilities and development of the seigniorage permit system and minor produce contracts.

The following abstract gives variations in the revenues realized under all the sub-heads in each district as compared with last year :—

District.	1884-85.	1885-86.	Difference.
	RS.	RS.	RS.
Chingleput	12,550	14,316	+ 1,766
North Arcot	62,616	85,745	+ 23,129
South Arcot	13,763	26,965	+ 13,202
Salem	1,04,914	1,09,444	+ 4,530
Trichinopoly	25,364	19,870	— 5,494
Tanjore..	6,078	7,310	+ 1,232
Coimbatore (North)	39,334	42,515	+ 3,181
Coimbatore (South)	35,736	34,025	— 1,711
Madura	31,321	32,942	+ 1,621
Tinnevelly	38,630	36,699	— 1,931
Malabar.. Wynaad and Pálghat	..	3,203	+ 3,203
Malabar.. Nilambúr	..	391	+ 391
South Canara	21,378	25,523	+ 4,145
Total ..	3,91,684	4,38,948	+ 47,264

The falling off in Trichinopoly is counterbalanced by larger receipts from direct departmental operations in firewood, &c.

Section 3—Free grants of Forest produce.

71. The following statement shows the removal of timber and other produce during the year on free permits issued by or under the authority of the District Forest officers :—

District.	Timber.		Firewood.	Bamboos.	
	Building purposes.	Agricultural purposes.	Agricultural and domestic and for manufacture of jaggery.	Building purposes.	Agricultural purposes.
	Quantity.	Quantity.	Quantity.	Quantity.	Quantity.
	C. FT.	C. FT.	TONS. LB.	TONS. LB.	TONS. LB.
Chingleput	175	..	..	..	..
South Arcot	19,200	..	5 0	..	..
Salem	2,535	..	..	59 392	..
Madura	1,926	506	..	6 0	..
Total ..	23,836	506	5 0	65 392	..

The floods of 1884 destroyed numerous houses in South Arcot and necessitated the grant of 19,200 cubic feet of timber. The other grants are petty. Villagers have, as a rule, been permitted to supply their own requirements in the shape of firewood, bamboos, &c., from unreserved lands free of charge and without any permits being required.

CHAPTER VI.

FINANCIAL RESULTS.

—	Revenue.	Expenditure.		Total.
		A. Conservancy.	B Establishment.	
	RS	RS.	RS.	RS.
1884-85 ..	6,25,492	2,09,344	2,87,579	4,96,923
1885-86 ..	6,52,318	2,34,006	3,00,608	5,34,614
Difference .	+ 26,826	+ 24,662	+ 13,029	+ 37,691

72. The total revenue and expenditure of the circle during the past official year, as exhibited in form No. 64 furnished by the Examiner of Forest Accounts, an abstract of which is given in the margin, exhibit an increase in both compared with the figures for 1884-85.

73. Under revenue the chief variations appear under the sub-heads noted below:—

	RS.
I (*a*). Timber	— 6,100
I (*e*). Grass, &c.	— 15,275
II (*a*). Timber	+ 6,852
II (*b*). Firewood, &c.	+ 25,582
II (*e*). Other minor produce	+ 15,583

74. Under expenditure there is an aggregate increase of Rs. 37,691, of which Rs. 24,662 appear under "A. Conservancy and works" and Rs. 13,029 under "B. Establishments."

The unadjusted balance of Rs. 17,697 referred to in last report as having been added to the actuals of 1884-85 under A. "Conservancy and works" has since been transferred to the accounts of 1885-86 and is included in the expenditure of that year in accordance with a final ruling of the Accountant-General.

The increase of expenditure under A. "Conservancy and works" is distributed under the sub-heads shown in the margin.

	RS.
I (*a*). Timber	+ 7,827
I (*d*). Sandalwood	— 3,591
I (*e*). Grass, &c.	+ 6,162
II. Timber	+ 11,625
VIII (*e*). Protection from fire ...	+ 5,755

The increase under A-I (*a*) represents chiefly the larger expenditure incurred on the collection of teak saplings in Nilambúr and the cost of felling teak, &c., in the leased forest on the Ánaimalais, Coimbatore (South). That under I (*e*) is due to large payments made in South Canara for the collection of minor produce. The saving under I (*d*) is due to the collection of sandalwood having been restricted under orders of the Conservator. The expenditure under II has increased owing to the enhanced scale of temporary establishments sanctioned for the year, and increased commission to permit-issuing officials in proportion to the improved revenue credited under the corresponding head of revenue. The increased expenditure under VIII (*e*) arises from additional areas having been brought under fire conservancy during the year.

The additional expenditure under B. Establishments and contingencies is due (1) to increment to Conservator's pay, (2) payment of acting allowances to certain officers, (3) gradual increase in the scale of subordinate establishments, (4) increase of travelling allowances, (5) hiring of a new building on Rs. 225 per month for the occupation of the Central offices, (6) purchase of office furniture in certain districts, and (7) increased expenditure on account of Forest Settlement offices.

75. The true financial results of (*a*) departmental working, (*b*) removals under permit system, and (*c*) expenditure on protection and improvement of forests are shown in form No. 67, of which the following is an abstract:—

Timber, &c., removed by Government Agency.		Other revenue.		Formation, protection and improvement of forests.		Total.	
Receipts.	Charges.	Receipts.	Charges.	Receipts.	Charges.	Receipts.	Charges
RS. 1,97,195	RS. 1,53,649	RS 4,55,123	RS. 2,46,012	RS. ..	RS. 1,34,953	RS. 6,52,318	RS. 5,34,614

It will be seen that the charges both under "A. Conservancy and works" and "B. Establishment" amount to 78 per cent. on the revenue from departmental working and 54 per cent. on that realized under the permit system. The advantage as regards conservancy and improvement of the forests under the former as compared with the latter system are, however, great, and as our officers have more time to devote to their strictly professional duties and a class of responsible middlemen grows up, as it doubtless will, the charges will decrease and the net revenue be augmented.

76. The net surplus of receipts over expenditure is Rs. 1,17,704 as compared with Rs. 1,28,569 in the previous year, the estimated surplus as per regular estimate having been Rs. 85,800. The revenue in Coimbatore, South Arcot and South Canara fell considerably short of the estimates, whilst that in Malabar (Nilambúr) and North Arcot exceeded them, the net result being a short revenue as compared with the regular estimate of Rs. 47,682. The revenue would have been fully up to the estimate had it not been for delay in promulgation of new seigniorage rates and grazing fees and in crediting tree rents to forests.

	Revenue.	Expenditure.	Net. surplus.
	RS.	RS.	RS.
1884-85 ...	6,25,492	4,96,923	+ 1,28,569
1885-86 ...	6,52,318	5,34,614	+ 1,17,704

The expenditure fell short of the regular estimate by Rs. 79,586, due to the strictest economy having been enjoined in accordance with the orders of Government, and to departmental operations in the forests being restricted through the attention and time of the Forest officers of all ranks being chiefly directed to the selection and settlement of reserved forests.

The short expenditure was mainly in Coimbatore and South Canara, which are also the districts in which the revenue was considerably below the estimates.

The revenue in three districts, viz., North Arcot, Salem and Malabar, exceeded a lakh of rupees for each, whilst in Coimbatore it fell below that amount from exceptional causes.

77. *Outstandings and liabilities on account of contractors and disbursers.*—The details relating to the outstanding advances of the circle will be found in form No. 65. The opening balance, total advances made and recovered during the year and the balance to be accounted for are shown in the margin.

	RS.	A.	P.
Total unadjusted balance on the 31st March 1885 as per paragraph 256 of the report for 1884-85	17,697	9	0
Add cash balance on hand in South Canara since transferred to outstanding advances	328	2	6
Total opening balance ...	18,025	11	6
Advances made during the year	2,74,120	9	3
	2,92,146	4	9
Deduct recoveries made during the year	2,65,754	4	4
Balance to be accounted for ...	26,392	0	5

78. *Outstandings on account of revenue.*—The particulars relating to outstandings on account of revenue appear in form No. 66. The year commenced with an outstanding revenue, due to the department, of Rs. 30,051, of which the only large item Rs. 26,135 appears in Coimbatore (North). It represents a legacy in the shape of arrears of tax on fruit trees due from faslis 1280 to 1294 (A.D. 1870 to 1884) handed over to us by the late Jungle Conservancy Department. The District Forest officer reports that application has been made to the Board for permission to write off Rs. 17,348 of the above sum, the parties by whom it is due being either dead or reduced to poverty by the late famine. No such application has, however, passed through this office. Further information is being called for.

The closing balance due to the department amounts to Rs. 33,300-12-1. Deducting the amount referred to as irrecoverable there is only a small balance of Rs. 16,000 chiefly appertaining to the closing months of the past year.

CHAPTER VII.

General Remarks.

79. *Superior and subordinate staff.*—Owing to paucity of officers in the superior staff to hold district and sub-division charges during absence of officers on leave or otherwise, two additional appointments in the grade of Sub-Assistant Conservators have been sanctioned, and it has been directed that all candidates for that class, whether selected from the ranks of Forest rangers or appointed direct, must in future undergo a course of training at the Dehra Dún Forest school and obtain a certificate of competence. The appointments had, however, not been filled up by the close of the year, as it is very difficult to find suitable candidates, especially amongst respectable natives, to whom a forest life is, as a rule, uncongenial.

80. *Forest Settlement-officers.*—Mr. Wolfe-Murray, C.S., was engaged on settlement work in Salem throughout the year in which good progress was made. He has also been appointed Forest Settlement officer for South Arcot and for some blocks in North Arcot, the original settlement of which was quashed by the Appellate Courts.

Mr. Castlestuart Stuart continued the settlement work in Wynaad, where numerous and complicated claims were preferred, most of which were approaching disposal at the close of the year.

The settlement of the Kanót forest was deferred on account of want of a map.

Mr Pinto, Deputy Collector, was appointed an additional Forest Settlement officer in March, and at once proceeded with the settlement of certain forests in Chingleput, already notified. These have been completed and Mr. Pinto is now at work in Tinnevelly.

Divisional officers (Revenue Department) were employed as Forest Settlement officers in Madura and Trichinopoly and made some progress.

The Collector of South Arcot represented that it was impossible for Divisional officers to attend properly to forest settlement work without detriment to their ordinary revenue and magisterial duties—an opinion fully shared by the Conservator.

81. *Forest conservancy in Tanjore.*—Financial considerations rendered a change in the administration of the Tanjore district indispensable. The Sub-Assistant Conservator, Mr. Carroll, who was in charge of the district, was transferred to Salem, and a Forester (1st grade) placed in charge of the Vettangudi forests under the orders of the District Forest officer, South Arcot, and the Collector of the Tanjore district.

A second Forester (1st grade) has since been appointed to assist the Divisional Revenue officers in the selection of areas to be reserved in the southern taluks. As soon as circumstances admit a Sub-Assistant Conservator or qualified Ranger will be sent to the district and the work of settlement and constitution of reserved forests be proceeded with.

82. *Forest school.*—Mr. Howell, Probationary Sub-Assistant Conservator, and Forester Maduranayagam Pillai obtained the Rangers' certificate at the Forest school, the former officer taking a high place at the final examination and securing several prizes. He returned from the school in March and has been posted to the Wynaad sub-division. The Forester visited the Central Provinces on his way back to study the system of fire-protection in force there, but was unfortunately rather late, the fire season having been nearly over. He has been promoted to the Rangers' class, 4th grade, and posted to Coimbatore (South).

Six students were sent to the school in the year under report and their progress is reported to be satisfactory.

A suggestion was made by the Director of Public Instruction to train men for the subordinate grades of the department at Saidápet, but after due consideration it was negatived.

83. *Rules under Act V of* 1882 (*The Madras Forest Act*).—Some important revisions and alterations were made during the year in the rules under section 26.

The timber transit rules under section 35 in the districts of Tinnevelly, Malabar and South Canara worked smoothly during the year, and, so far as the Conservator is aware, no hardship resulted from their operation. Reports regarding them were submitted, and it is proposed to limit their scope to definite areas to be scheduled.

As regards rules under section 63, (*a*) it is believed that the power to compound offences has not been abused and is found very useful in settling with petty offenders without the intervention of the magistracy. (*b*) The rules for Forest Settlement officers were adhered to and amendments brought to notice in practical working submitted for approval. (*c*) The grant of rewards to informers appears not to be fully understood by the subordinate magistracy in some districts.

The question of republishing the Act and all forest rules in the shape of a handy manual is under consideration.

The departmental code came into force on 1st April 1885; several amendments have since been made.

84. *The giant-riding saw machine* was tried in the North Arcot and Trichinopoly districts with indifferent success, the outturn of work comparing unfavorably with that of two men using the ordinary native saw.

It is now being worked in South Arcot with better results and is found more adapted for the conversion of medium-sized logs than for billet firewood.

85. *Exhibition.*—Specimens of economic products were collected and despatched to the Government of India for the Colonial and Indian Exhibition and an exhaustive catalogue was prepared.

86. *Service books.*—G.O., dated 22nd February 1886, No. 396, Public, regarding service books was received too late to enable District Forest officers to furnish the report called for with their annual reports for the past year. It will, however, receive attention in submitting the report for the current year.

87. *Maps.*—Good maps are still our great want, and it is hoped that measures will shortly be adopted to furnish them either by the Madras Revenue Survey Department or the Topographical Survey of India.

A map of the Salem district, prepared by the District Forest officer, showing the range and sub-charges, beats, &c., accompanies the report as appendix II.

88. *Boundary disputes.*—The Sivagiri claim (Tinnevelly district) was, it is understood, decided in favor of Government, but no copy of the decree has reached the Conservator.

The Singampatti (Tinnevelly) and Attipadi (Malabar) suits went against Government. An appeal to the Privy Council in the former is under consideration, and in the latter the transfer of the valley to the Coimbatore district and acquisition under the Forest Act of the areas which it is absolutely necessary to protect on the head waters of the Bhaváni and Siruvani rivers have been ordered.

The appeals against the Forest Settlement officer's decisions with regard to the Chenat Nair forest (Malabar) were dismissed, but too late to admit of its notification under section 16 before the close of the year.

Other appeals and suits in connection with forest settlement are pending, and the question as to finality of decisions by Appellate Courts will have to be settled and, if necessary, the Act amended.

The Board and Government have decided that we are bound by the Survey Deputy Superintendent's revisions in respect of the Kalroyen hill cases (South Arcot). by which we lose a considerable area of hill forest hitherto in our possession.

89. *Health of establishment.*—The health of the officers of the superior staff was fairly good, but Messrs. Morgan and Stanbrough had to avail themselves of privilege leave on medical certificate.

The subordinate staff suffered severely, fire-protection operations requiring constant exposure in the hottest and worst feverish months which formerly were those of comparative rest.

Six deaths occurred in Coimbatore (North) including that of one Ranger, five in Malabar (Wynaad and Pálghat) and fifty (coolies) in Nilambúr from an outbreak of cholera.

The establishments in the Wynaad, Nilambúr, Ánaimalais, Pachamalais and Javádis were prostrated from fever, whilst those in Madura and Coimbatore (North) fared little better.

Every endeavour is being made to secure the health of the establishment by building good houses, sinking wells, supply of medicines, &c., but fever must always be more or less prevalent in the forests, and our Range and Sub-Range officers and guards, &c., often neglect reasonable precautions and neither eat, drink, nor clothe themselves properly.

90. *Administration of the department generally.*—The work in the Conservator's office and all districts was still carried on at high pressure and good progress has, on the whole, been made.

In forwarding the District Forest officers' administration reports, the Collectors of Trichinopoly and South Canara make the following remarks:—

Trichinopoly.—"It is my pleasing duty to state that in my opinion the results of forest administration during the year are creditable both to Mr. Stanbrough and to the staff of forest subordinates employed under him."

South Canara.—"Mr. Peake states that he hopes a good deal has been done to lay a foundation and prepare for the progress contemplated in 1886-87. That much has been so done I am confident.

"It is well known that from a variety of causes the forest administration of South Canara was never in former days in a satisfactory condition, and the members of the subordinate establishment were further terribly demoralized by the period of almost total inaction between 1874 and the introduction of the new organization. Mr. Bradley did much to throw new life into matters, but he was only an officer in temporary charge with his own other duties to perform, and it therefore remained for Mr. Peake to deal with all detailed matters of accounts and internal organization This was a heavy task for a young officer hampered by an idle and incompetent subordinate staff, but Mr. Peake has worked with great assiduity and harder I fear than has been good for him.

"The most important administrative step of the year has been the selection of about 75 square miles of forest for notification as reserved forests, and the setting aside of a large area of reserved land from which almost the whole of the reserved forests of the district will be carved out within the course of a few years, after which the rest of the temporarily reserved lands can fall back into the unreserved area. Arrangements have been made for the administration of the reserved areas by the forest staff proper, while the District Forest officer will manage the unreserved areas through the ordinary taluk and village establishments of the district. For this purpose clear and detailed rules have been drawn up and published for the guidance of all concerned."

91. There is an alarming tendency towards increase of office to the detriment of outdoor work which the Conservator has done his best to check but without avail. It is of course due in some measure to the working of the Act and rules, introduction of the new code and progress of forest settlement, but also to the multiple control and complex organization under which every Forest officer has two or more masters. As reserved forests are settled and constituted, it will probably be found expedient to hand them over to the sole charge of the departmental officers, the intervention of the Collector and Board of Revenue being dispensed with and the work of the professional Forest officers concentrated. This will, it is hoped, greatly reduce correspondence and simplify and improve the administration of the department.

During the year the Central office in Madras was removed to more commodious but more expensive quarters in the old Victoria Hotel. If Madras is to remain the head-quarters, it would be better and cheaper to build proper offices with provision for a Forest Museum and Library.

PRELIMINARY WORKING SCHEME (REVISED) FOR THE SHÔLAKARAI BLOCK OF BOLAMPATTI RESERVED FOREST.

CHAPTER I.

DURATION OF WORKING SCHEME AND EXTENT OF WORKING CIRCLE.

1. The working circle comprises the whole of the Shôlakarai block (1,142 acres), of the Bôlampatti forest which was notified as a reserved forest by G.O., No. 1280, dated 19th November 1884, under section 16 of the Forest Act.

CHAPTER II.

GENERAL DESCRIPTION OF WORKING CIRCLE.

Situation.

2. It is situated in the Coimbatore taluk, to the south of the range of hills which form the southern limit of the Bôlampatti valley, and north of the railway from Madras to Beypore, about 1 mile east of Wálayár railway station. From its proximity to the railway, and as Coimbatore town is only 17 miles distant (by rail or road), it is most conveniently situated, and a ready market for the produce is always available.

Boundaries.

3. Its boundaries are :—

North.—The Shôlakarai hills forming part of the Bôlampatti reserved forest.
East.—Patta lands, which are both cultivated and waste.
South.—The railway from Madras to Beypore.
West.—Patta lands and a cart track leading to the hills.

Configuration of the ground.

4. The block is situated on ground with a gentle slope from north to south. On the whole it is fairly level with but few nullahs and ravines.

Climate.

5. The climate is equable and there are no great variations in temperature. There are no reliable data as to the average temperature and rainfall, but the block gets part of the south-west monsoon from May to September, though several inches less than the Wálayár reserve in the Pálghat range, Malabar district, not more than a mile distant to the west of the Wálayár river It also gets showers between October and January and sometimes in March or April with heavy dews at night both in the cold and hot months, *i.e.*, November to February and March to May, respectively. As far as is known, little or no damage is done by wind or storms.

Soil.

6. The soil is a good clayey loam in some parts, in others chalk predominates. On the whole it is deep and rich.

Stock.

7. A list of the principal trees is given in Appendix II.

Forest fires.

8. For the past four years, the block has been free from fire, with the exception of a small fire which occurred in 1884 and burnt the grass and under-growth over an area of 15 acres. Its proximity to the railway and private forests necessitates rigid precautions. During the fire season, which lasts from January to the end of May, five extra patrols in addition to the two permanent watchers are entertained. A fire line with an average breadth of 80 feet is burnt round the exterior limits, and the two inspection paths (each 13 feet broad) serve also as interior fire lines.

Effect of fires.

Fires which used to occur annually during former years account, no doubt, in part for the present stunted condition of the growing stock.

Grazing.

9. Cattle also have been rigidly excluded for the past four years, and as the block is worked as "Coppice with standards," it would never do to allow grazing, as parts will always consist of young coppice.

Rights, &c.

10. During the forest settlement no easements or proprietary rights were admitted inside this block.

Demands for produce.

11. The chief demand is from the town of Coimbatore, which is 17 miles to the east of the block.

12. The block is bounded by the railway and situated at a distance of about 1½ miles to the north of the road leading from Pálghat to Coimbatore. A cart track leads from the south-west corner of the block to the road.

Lines of export, roads, &c.

Inside the block the two inspection paths running north and south and east and west serve as roads.

Water-supply

13. The few streams which exist dry up during the hot weather, but there is generally some water in the Wálayár river, which runs close to the western boundary of the block.

Rest houses, &c.

14. The fire patrols and watchers, who are junglemen, live inside the block in temporary huts. The forest is, however, very malarious: and the permanent camp, composed of a forester's house, two forest guards and a checking tannah, is situated about 2 miles distant on the Wálayár-Coimbatore road at Noukarai Pallam.

CHAPTER III.

Formation of Blocks and Compartments.

15. The block is divided into 8 Compartments :—

Compartment	A—165·60	acres
"	B— 90·40	"
"	C— 89 10	"
"	D—103·40	"
"	E—154·09	"
"	F—169·81	"
"	G—194·10	"
"	H—175 60	"

The accompanying map, which is on the scale of 600 feet to the inch (8·8 inches to the mile), from chain and compass survey by Mr Porter, shows the situation and area of the Compartments and "*Coupes*" (annual cuttings). The Compartment lines are blue and the "*Coupe*" lines red. The Compartment lines (5 feet broad) are kept open on the ground: but the annual "*Coupes*" are surveyed out only during the year in which they are to be felled.

CHAPTER IV.

Description of the Block.

Past history.

16. The block was taken up as a "Railway fuel reserve" in 1868. Of the entire area, 246 acres were purchased from pattadars by the Collector, the rest was Government waste. Although fenced, cattle and fires have only been rigidly excluded during the last four years. Contracts also, from time to time, were given for felling bamboos and other produce. A considerable amount of planting and sowing was also done at intervals, but apparently on no definite system No statistics are available shewing the actual areas cultivated and felled over, or the amount and value of produce removed.

Present condition.

17. Considering the quality of the soil and the favorable rainfall, the present condition of the growing stock is not satisfactory and the outturn probably not one-half of what it will be after 1896 when the second rotation begins. Compartments F and G are composed principally of bamboos.

18. The coppice throughout is of poor quality owing—

(*a*) To imperfect protection in former years from fire and cattle.

(*b*) To the way in which the trees were cut, in a good many cases the stock being composed of pollards and not coppice.

In no cases do the trees appear to have been cut level with the ground, the young shoots therefore were weak, few in number, and inherited, of course, the defects of the parent stump and so died or, at any rate, deteriorated at an early age.

The advantages of cutting trees level with the ground are that the shoots soon acquire a separate existence, and derive nourishment from the soil directly by their own roots instead of being dependent on the old stump, which often rots away and imparts its defects and failings to the young shoot. The latter then begins to rot from the base upwards.

19. In the open parts of the block and more especially along its southern and western boundaries, there is a luxuriant growth of grass. This increases the danger from fire. Probably after the first rotation, the grass will die away, as the new coppice will be thick enough to kill it.

Grass.

CHAPTER V.

General Proposals for Working.

Treatment.

20. The forest will be treated on the system of "Coppice with standards."

Series.

21. The block has been divided into three "*Series.*" The 1st and 2nd series are described as fuel series, as the principal product is firewood and poles. The 3rd series is described as a bamboo series, the principal product being bamboos.

Reasons for forming series.

22. Grouping the compartment into three series, and making each series furnish a number of "*Coupes,*" in such a way that one "*Coupe*" can be felled in each series annually, affords the following advantages :—

(*a*) Each of the three series contains stock of nearly equal quality and quantity; the outturn per acre per annum in a given series will therefore be almost constant during the whole rotation.

(*b*) By felling a "*Coupe*" in each series the average outturn per acre per annum during the whole rotation will be almost constant. If, instead of adopting this method, $\frac{1}{12}$ of the whole block were felled over annually in one place, the annual acre outturn would vary, as the stock is very different in the north and south compartments.

(*c*) Moreover, it is not convenient to have firewood "*Coupes*" of more than 30 acres in extent, as the bigger the "*Coupe*" the longer of course it takes to fell and remove the produce; and if the felling lasts many months the young shoots, which spring from the stools, get knocked off by the cart wheels. By having three small "*Coupes,*" instead of one large one, three different contractors or working parties may be employed.

Rotation.

23. The rotation is fixed at 12 years for series I and II. Each of these series contains 12 "*Coupes.*"

For series III, which is composed for the most part of bamboo, the rotation is fixed at 6 years, and the series itself divided into six "*Coupes.*" The bamboo series will therefore be felled over twice during the firewood rotation.

Capability and profits.

24. The capability of the block is fixed at so many acres a year. The probable yield per acre per annum in cubic feet, &c., as well as the net profit per acre per annum is given in Appendix III, calculated from the three "*Coupes*" felled during 1885. The yield as now calculated will improve after the first rotation, and the net profit per acre per annum will compare favorably even now with the assessment on dry lands in the vicinity, which is 12 annas an acre.

Net profit per acre per annum.

25. It will be seen that the net profit, not including the cost of establishment, is for "*Coupes*"—

In the 1st series Rupees 2- 1-9 per acre per annum.
" 2nd series " 1-15-3 " "
" 3rd series " 2- 9-6 " "

Annual yield per acre per annum in each series.

26. The annual yield per acre per annum is for "*Coupes*"—

In the 1st series 1·31 tons of fuel.
2·78 poles.
6 bamboos.

" 2nd series ·61 tons of billet wood.
·65 tons of fagot wood and twigs.
Total 1·26 tons of fuel.

0·81 teak poles.
0·20 bloughs.
148 bamboos.

" 3rd series ·46 tons of billet wood.
·57 fagot wood and twigs.
Total 1·03 tons of fuel.

0·11 teak poles.
0·16 ploughs.
419 bamboos.
·009 bamboo thorns.

27. In reviewing the financial results and annual yield, it must be remembered that, on an average, 15 trees per acre are reserved, and these are not now taken into consideration.

During the second rotation there is little doubt that the outturn will be doubled.

Thinnings.

28. It will probably be necessary to thin out the new growth once or twice during the rotation. At present it is difficult to say at what age the first thinning will be necessary. But there will be little need to make heavy thinnings as the poles will all be of the same height, and clumps of 4 or 5 poles growing together will not injure each other.

CHAPTER VI.

29. *General Prescriptions* :—

(*a*) The present working scheme must be adhered to and no alteration made in its provisions without the previous sanction of the Conservator.

(*b*) All trees and bamboos to be cut level with the ground.

(*c*) No grazing to be allowed, and fire to be rigidly excluded.

(*d*) Felling should begin in June and all produce be felled and removed within three months in "*Coupes*" in series I and II, and within four months in "*Coupes*" in series III.

(*e*) Not less than 15 poles to the acre should be reserved in each "*Coupe*." The poles, which should be chosen from the more valuable species, to be, as far as possible, seedlings; where these are not available, straight, healthy coppice poles must be reserved. Poles should be marked for reservation before the felling takes place.

(*f*) In future all work in the way of felling should, if possible, be done by contractors The contractor agreeing to fell at his own cost, to pile, and arrange the produce when felled, in different categories, and then to purchase it at so much per cubic foot or ton, &c.

(*g*) The Range Officer will maintain a book showing the quantity, description and value of produce removed from each "*Coupe*," and also the names, numbers, and valuation of trees reserved. A copy of this statement for each "*Coupe*" must be submitted to the District Forest Officer as soon as the felling is over and the produce removed. For bamboos, poles, &c., the numbers must be given, and for other produce, such as fuel, the results must be given in tons or cubic feet.

(*h*) A protective belt 50 feet broad must be maintained round the exterior limit of the block, bamboos only to be felled on the protective belt.

H. J. PORTER,
Acting Deputy Conservator of Forests,
District Forest Officer, Coimbatore (South).

DISTRICT FOREST OFFICE,
Coimbatore, 18th June 1886.

No. 676 (A).

1. Examined and approved as revised.

2. The scheme is of course provisional as we have not sufficient data as to rate of growth or annual increment to determine the capability or sustained annual yield, and experience may indicate the advisability of modifying the treatment especially with regard to the bamboo series.

3. The general prescriptions (paragraph 29 must, however, be rigidly adhered to, and the general principles of the scheme not be deviated from except under the sanction of competent authority. They will probably suffice for the first period or rotation (12 years) when the actual results can be compared with the estimated yield and a revised scheme adopted if necessary.

I. CAMPBELL WALKER, LIEUT.-COL.,
Conservator of Forests in charge of
Southern Circle.

OFFICE OF THE CONSERVATOR OF FORESTS, S.C.,
Ootacamund, 21st June 1886.

APPENDIX I.

Working Plan of the Shôlakarai Block.

Year.	First Series.		Second Series.		Third Series.		Remarks.
	Compartment.	Area of Coupe.	Compartment.	Area of Coupe.	Compartment.	Area of Coupe.	
1885	A 165·60	33·12	E 154·09	30·81	F 169·81	56·60	Already felled.
1886		33·12		30·81		56·60	
1887		33·12		30·81		56·61	
1888		33·12		30·81	G 194·10	64·70	
1889		33·12		30·85		64·70	
1890	B 90·40	30·13	D 103·40	25·85		64·70	
1891		30·13		25·85	F 169·81	56·60	
1892		30·14		25·85		56·60	
1893	H 175·60	43·90		25·85		56·61	
1894		43·90	C 89·10	29 70	G 194·10	64·70	
1895		43·90		29·70		64·70	
1896		43·90		29·70		64·70	
Total ..	..	431·60	..	346·59	..	363 91	

APPENDIX II.

List of the Principal Trees found in the Shôlakarai Block.

English and Vernacular names.	Botanical names.
Teak (Tékku)	Tectona grandis.
Vellainága	Anogeissus latifolia.
Vepálai	Wrightia tinctoria.
Noná maram	Morinda { citrifolia. exserta.
Tamarind (Puli)	Tamarindus indica.
Velvélam	Acacia leucophlœa.
Karuvélam	Acacia arabica.
Karangáli	Acacia Sundra.
Perumbai	Prosopis spicigera.
Malaivémbu	Melia Azedarach.
Etti maram	Dalbergia latifolia.
Véngai	Pterocarpu Marsupium.
Ácha	Hardwickia binata.
Yelandai...	Zizyphus Jujuba.
Punga	Pongamia glabra.
Táni	Terminalia belerica.
Arasu	Ficus religiosa.
Patchálai	Dalbergia paniculata.
Tadasu	Grewia tiliæfolia.
Silawúngai	Albizzia odoratissima.
Mailadi	Vitex altissima.
Anni karai	Odina Wodier
Bamboo (Múngal)	Bambusa arundinacea.

APPENDIX III.

Felled in 1885.

Statement showing Financial Results, Yield, and Names and Value of Trees reserved in Coupe A (1), 33·12 *acres*; 30 *acres only worked.*

Financial Results.

Receipts.	Amount.			Expenditure.	Amount.		
	RS.	A.	P.		RS.	A.	P.
Sale of 471 tons of fuel at Rs. 1-8-7 per ton	725	0	0	Cost of cutting and stacking 471 tons of fuel	314	0	0
Sale of 1,002 poles	400	0	0	Cost of cutting and stacking bamboos	15	8	0
Do. of 2,005 bamboos ...	40	0	0	Cost of cutting and stacking poles	62	8	0
Do. of bamboo thorns, &c. ...	22	7	0	Cost of heaping up branches and clearing the *coupe*	34	14	0
	1,187	7	0		426	14	0

Net profit in A(1), which was worked departmentally, is therefore Rs. 760-9-0. The area felled over was only 30 acres as a protective belt comprising 3·12 acres was left along the south and west; the net profit per acre per annum is therefore $= \frac{760}{30 \times 12} = 2\text{-}1\text{-}9$.

Yield per acre per annum.

$\frac{471}{30 \times 12} = 1{\cdot}31$ tons of fuel. $\frac{1002}{30 \times 12} = 2{\cdot}78$ of poles.

$\frac{2005}{30 \times 12} = 6$ bamboos.

Names and Value of Trees reserved.

Number of trees.	Names of trees.	Rate per tree.			Amount.			Number of trees.	Names of trees.	Rate per tree.			Amount.		
		RS.	A.	P.	RS.	A.	P.			RS.	A.	P.	RS.	A.	P.
70	Tectona grandis ...	0	8	0	35	0	0	49	Anogeissus latifolia small ...	0	2	0	6	2	0
26	Do. small.	0	3	0	4	14	0	40	Grewia tiliæfolia ...	0	4	0	10	0	0
7	Pterocarpus Marsupium . ..	0	8	0	3	8	0	20	Vitex altissima	0	2	0	2	8	0
40	Prosopis spicigera...	0	8	0	20	0	0	20	Morinda citrifolia ..	0	2	0	2	8	0
13	Do. small	0	3	0	2	7	0	20	Acacia leucophloœa	0	3	0	3	12	0
40	Acacia Sundra ...	0	8	0	20	0	0	20	Tamarindus indica .	0	8	0	10	0	0
23	Do. small.	0	3	0	4	5	0								
100	Anogeissus latifolia.	0	9	0	37	8	0	488					162	8	0

Felled in 1885.

Statement showing Financial Results, Yield, and Names and Value of Trees reserved in Coupe E(1) 30·81 *acres.*

Financial Results.

Receipts.	Amount.			General Remarks.
	RS.	A.	P.	
53,300 bamboos @ 9 annas per 100 ...	303	0	0	This *coupe* was purchased by a contractor who felled and stacked the produce at his own expense and purchased it at the rate as shown. The net profit per acre per annum is therefore $\frac{703}{30 \times 12} =$ Rs. 1-15-3.
292 teak poles @ as. 8 per pole ..	146	0	0	
75 ploughs @ as. 3 per plough ...	14	1	0	
220½ tons of fuel @ 0-10-8 per ton ..	147	0	0	
148½ tons of branch fuel *a* 8 as. per ton.	74	4	0	
85½ tons of small branches @ 0-3-6 per ton	18	12	6	
	703	1	6	

Yield per acre per annum.

$\frac{53,300}{30 \times 12}$ = ·148 bamboos.

$\frac{292}{30 \times 12}$ = 0·81 teak poles.

$\frac{75}{30 \times 12}$ = 0·20 ploughs.

$\frac{220}{30 \times 12}$ = 0·61 tons of billet wood.

$\frac{234}{30 \times 12}$ = 0·65 tons of fagot wood.

Total ... 1·26 tons of fuel.

Names and Value of Trees reserved.

Number of trees.	Names of trees.	Rate per tree. RS.	A.	P.	Amount. RS.	A.	P.
25	Tectona grandis	0	8	0	12	8	0
35	Prosopis spicigera	0	8	0	17	8	0
40	Acacia Sundra	0	8	0	20	0	0
35	Do. small	0	3	0	6	9	0
30	Acacia leucophlœa	0	6	0	11	4	0
40	Grewia tiliæfolia	0	2	0	5	0	0
100	Anogeissus latifolia	0	6	0	37	8	0
121	Do. small	0	2	0	15	2	0
14	Morinda citrifolia	0	2	0	1	12	0
10	Vitex altissima	0	2	0	1	4	0
8	Tamarindus indica	0	4	0	2	0	0
458					130	7	0

Felled in 1885.

Statement showing Financial Results, Yield, and Names and Value of Trees reserved in Coupe F (1), 56·60 *acres*.

Financial Results.

Receipts.	Amount. RS.	A.	P.	General Remarks.
140,650 bamboos at Rs. 0-7-3 per 100 ...	641	4	0	Felled and purchased by a contractor in the same way as E (1).
3½ tons of bamboo thorn at Rs. 1-0-0 per ton	3	8	0	Net profit per acre per annum, assuming that the bamboo *coupe* can be felled every 6 years, will be—
79 teak poles at Rs. 0-8-0 per pole ...	34	8	0	
114 ploughs at Rs. 0-3-0 per plough ...	21	6	0	
311½ tons of fuel at Rs. 0-10-8 per ton	207	8	0	
29½ tons of branch fuel at Rs. 0-12-0 per ton	22	2	0	$\frac{645}{56 \times 6}$ = 1 14 8 (RS. A. P.)
334½ tons of small branch fuel at Rs. 0-8-0 per ton	167	4	0	$\frac{456}{56 \times 12}$ = 0 10 10
20 tons of inferior branch fuel (twigs) at Rs. 0-3-0 per ton	3	12	0	Total ... 2 9 6
	1,101	4	0	Bamboo out-turn comes every 6 years, but coppice every 12 years.

Yield per acre per annum.

$\frac{140,650}{56 \times 6}$ = 419 bamboos.

$\frac{3}{56 \times 6}$ = ·009 tons of bamboo thorns.

$\frac{79}{56 \times 12}$ = 0·11 teak poles.

$\frac{114}{56 \times 12}$ = 0·16 ploughs.

$\frac{311}{56 \times 12}$ = 0·46 tons of billet wood.

$\frac{382}{56 \times 12}$ = 0·57 tons of fagot wood.

Total ... 1·03 tons of fuel.

Names and Value of Trees reserved.

Number of trees.	Names of trees	Rate per tree.			Amount.			Number of trees.	Names of trees.	Rate per tree.			Amount.		
		RS	A.	P.	RS.	A.	P.			RS.	A.	P.	RS.	A.	P.
5	Tectona grandis ...	0	8	0	2	8	0	1	Ficus indica ...	3	0	0	3	0	0
106	Dalbergia latifolia	0	8	0	53	0	0	4	Terminalia belerica.	2	0	0	8	0	0
42	Pterocarpus Marsupium	0	8	0	21	0	0	1	Ficus religiosa ...	3	0	0	3	0	0
40	Pterocarpus small...	0	2	0	5	0	0	62	Stereospermum chelonoides ...	0	2	0	7	12	0
80	Prosopis spicigera ..	0	6	0	30	0	0	39	Grewia tiliæfolia ..	0	2	0	4	14	0
60	Acacia Sundra ...	0	8	0	30	0	0	65	Albizzia odoratissima	0	4	0	16	4	0
26	Do. small	0	3	0	4	14	0								
100	Anogeissus latifolia.	0	6	0	37	8	0	25	Morinda citrifolia ..	0	2	0	3	2	0
61	Do. small ..	0	2	0	7	10	0	11	Vitex altissima ...	0	2	0	1	6	0
37	Acacia leucophlœa.	0	4	0	9	4	0	30	Odina Wodier ...	0	1	0	1	14	0
30	Do. small...	0	2	0	3	12	0	10	Tamarindus indica.	1	0	0	10	0	0
								835					263	12	0

FORM No. 59-A.

Forest Department, Madras, Southern Circle.

Area of reserved forests, 1885-86.

District.	Range.		Name of forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
				Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Chingleput..	Saidápet		Tandrai	..	..	664	..	664	..	No. 49, F S.G.G., dated 24th February 1886.	Transferred from 59 B.
			Tirukalikundram.. ..	..	..	697	..	697	..	No. 267, F.S.G.G., dated 25th September 1885.	
			Uragadam..	..	..	540	..	540	..		
			Madayattur	..	..	697	..	697	..		
	Tiruvallur		Kámbákam	..	..	13,705	..	13,705	..	No. 49, F.S G.G., dated 24th February 1886.	
			Pándur	..	..	1,262	..	1,262	..		
			Total ..	..	..	17,565	..	17,565	27·45		
North Arcot.	Vellore ..	Pólúr taluk ..	Carnaticghur reserve ..	12,800	20	..	* 5,730·63	7,069·17	11·04	No. 241, F S G.G., dated 18th December 1884.	Demarcated and surveyed.
		Vellore taluk..	Ambúr fuel reserve ..	3,840	6	..	..	3,840	6 00		
			Palamadi fuel reserve ..	6,400	10	..	..	6,400	10·	No. 96, F.S.G.G., dated 31st March 1885.	Demarcated.
	Chandragiri.	Chandragiri taluk.	Napier reserve	..	..	8,772	..	8,772	13·70	No. 158, F S.G.G., dated 16th June 1885.	Demarcated, surveyed and fenced.
			Mámandúr	..	..	1,776	..	1,776	2·77		Transferred from 59B.
			Chamala	..	..	9,600	..	9,600	15		Demarcated.
			Panapák	..	..	6,400	..	6,400	10		
			Podiyatlabail	..	..	2,560	..	2,560	4		
		Chittoor taluk.	Paradarami	..	..	15,241·83	..	15,241·83	23·83		Demarcated and surveyed.
		Gudiyátam taluk.	Ambúr drug reserve ..	5,760	9	..	..	5,760	9	No. 241, F S.G.G., dated 18th Dec. 1884	
	Palmanér	Palmanér taluk	Musalimadugu	..	..	9,600	..	9,600	15	No. 158, F.S.G.G., dated 16th June 1885.	Demarcated. Transferred from 59 B.
			Basvireddipalle	..	..	10,240	..	10,240	16	No. 275, F.S.G.G., dated 2nd Oct. 1885, part I.	
		Palmaner and Gudiyátam taluks.	Mortana reserve	..	..	16,000	..	16,000	25	No. 158, F S G G., dated 16th June 1885.	
			Naikaneri reserve ..	..	..	6,400	..	6,400	10		
			Peddur	..	..	9,600	..	9,600	15		
	Head-quarters.	Arcot taluk ..	Punganúr plantations ..	6,400	10	..	* 2,656·63	3,743·37	5 84	No 96, F.S G.G., dated 31st March 1885.	Demarcated and surveyed.
	Vellore ..	Pólúr taluk ..	Ammerdi plantation ..	25	..	..	..	25	..	No. 241, F.S G.G., dated 18th Dec. 1884, part I.	Demarcated and surveyed.
		Vellore taluk..	Ambúr plantation ..	5	..	..	..	5	..		
	Chandragiri	Chandragiri taluk.	Gazerlamandiyam ..	..	..	250	..	250	..	No 158. F S.G.G., dated 16th June 1885, part I.	Partly surveyed and fenced, not planted.

Area of reserved forests, 1885-86—*continued.*

District.	Range.		Name of forest.	Area on 1st April 1885. Acres.	Area on 1st April 1885. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1886. Acres.	Area on 31st March 1886. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
North Arcot—*cont.*	Palmanér	Gudiyátam taluk.	Tiruvallam plantation ..	435	..	..	..	435	..	No. 241, F.S.G.G., dated 18th December 1884.	Demarcated, surveyed and fenced.
			Virinjipuram do. ..	260	..	..	..	260	..		
			Chainur do. ..	129	..	..	..	129	..		
			Ammundi do. ..	160	..	..	..	160	..		Demarcated and fenced.
			Tándráyagunta do. ..	2	..	..	..	2	..		
		Palmanér taluk	Palmanér	..	..	2	..	2	..	No. 158, F.S.G.G., dated 16th June 1885, part I.	Fenced.
			Nagamangalam	..	..	31	..	31	..		
			Piduguvaripalle	..	..	20	..	20	..		
			Venkatagirikota	..	..	4	..	4	..		
			Baireddipalle	..	..	4	..	4	..		
	Head-quarters.	Arcot taluk ..	Kilminnel	150	..	..	* 38 46	111·54	..	No. 241, F.S.G.G., dated 18th December 1884.	Demarcated, surveyed and fenced.
		Wálajápet taluk.	Vannivédu	..	..	30	..	30	..	No 158, F.S.G.G., dated 16th June 1885, part 1.	Demarcated and fenced.
			Arkónam Sub-Magistrate's compound.	..	..	5	..	5	..		
			Arkónam plantation ..	..	..	37	..	37	..		
			Total ..	36,366	56·82	96,572·83	* 8,425·92	124,512·91	194·55		
South Arcot ..	Tiruvannámalai taluk, No. I range.		Annámalai..	..	..	1,760	..	1,760	2·75	No. 151, F.S.G.G., dated 2nd June 1885.	Notified under sec. 25. Transferred from 59 B.
Salem ..	....		....	..	..	..	..	..	..		
Trichinopoly ..	Kulitalai		Élamanúr	117·10	0·18	..	..	117·10	0·18	No. 171, F.S.G.G., dated 23rd September 1884.	Notified under sec, 25.
			Kulitalai	77·18	0·12	..	..	77·18	0·12		
			Manatattai	44·86	0·07	..	..	44·86	0·07		
			Láápet	213·	0·33	..	..	213·	0·33		
			Sittalavoi	160 32	0·25	..	..	160·32	0·25		
			Kattalai	74·35	0·11	..	..	74·35	0·11		
			Téanmalai	640·	1·	..	..	640·	1·	No. 204, F.S.G.G., dated 11th December 1883.	
			Minnakaradu	1,000·	1·56	..	..	1,000·	1·56		
			Punjantángi	1,000·	1·56	..	..	1,000·	1·56		
			Total ..	3,326·81	5·19	..	..	3,326·81	5·19		
Tanjore ..	....		....	..	..	..	..	..	..		

* Excluded as found correct when surveyed.

Area of reserved forests, 1885-86—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885. Acres.	Area on 1st April 1885. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1886. Acres.	Area on 31st March 1886. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Coimbatore (North).	Kollegál	Jadatalayhulla	361 01	3·69	..	..	361·01	3·69	No. 217, F.S G.G., dated 21st December 1883.	Sandalwood reserves demarcated, surveyed and mapped. Notified under Sec. 25.
		Udaiyárpálaiyam	296 63		..	..	296·63			
		Bilúr	1,186·39		..	..	1,186·39			
	Satyamangalam	Germalam..	519 78		..	..	519·78			
		Vellamundi	..	..	*12,800	..	12,800	20	No. 174. F S.G.G., dated 7th July 1885.	Notified under sec. 16.
		Total ..	2,363·81	3·69	12,800	..	15,163·81	23·69		
Coimbatore (South)	Tunácadavu	Anaimalais No. I ..	52,480	82	..	..	52,480	82		
	Punáchi	Do. „ II ..	3,140	4 9	..	..	3,140	4·9		
	Udamalpet	Do. „ III ..	47,360	74	..	..	47,360	74		
	Pollâchi and Udamalpet ..	Do.	133,120	208	..	..	133,120	208		
	Bélampatti	Bolampatti block I	47,680	74·5	..	..	47,680	74·5		
		Do. „ II								
		Do. „ III								
		Tadágam forest block No. IV	30,720	48·	..	..	30,720	48		
	Coimbatore taluk (Mettupálaiyam).	Gôpanári forest block No. V	..	..	38,200	..	38,200	59·69	No. 44, F.S G G., dated 4th November 1885.	Transferred from 59 C.
		Kempampalaiyam forest block No. VI.								
		Nellitorai do „ VII.								
		Odantorai do. „ VIII.	..	..	5,880	..	5,880	9·19		
		Môdur do. „ IX	..	..	3,600	..	3,600	5·62		
		Total ..	314,500	491·41	47,680	..	362,180	565·91		
Madura ..	No. I, Periyakulam.. ..	Vannátipárai	27,481 6	42·94	..	..	27,481·6	42·94		
		Suranganur	3,616	5·65	..	..	3,616	5·65		
		Méla Gúdalúr	..	..	1,280	..	1,280	2	No. 94, F.S G G., dated 24th March 1886.	Notified under sec 16
		Machakal	..	..	2,560	..	2,560	4		
		Sengalvarayár	5,209·6	8·14	..	..	5,209 6	8·14		
		Pámbár	4,755·2	7·43	..	..	4,755·2	7·43		
		Vikramangalam	10,240	16	..	..	10,240	16		
		Virapándi..	2	..	..	..	2	..	....	Reserved forest and tope.
		Támaraikulam	1	..	..	..	1	..	....	

Approximate.

Area of reserved forests, 1885-86—*continued.*

District.	Range	Name of forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Madura—*cont.*	No. I, Periyakulam—*cont.*	Mélamangalam	1·5	..	..	..	1·5	..	..	Reserved forest and tope.
		Vadipatti	1	..	..	..	1	..	..	
		Gangavárpatti	4	..	..	..	4	..	..	
		Allinagaram	2	..	..	..	2	..	..	
		Mottanutu	2	..	..	..	2	..	..	
		Tambiránkánal	..	..	250	..	250	..	No. 268, F.S.G.G., dated 25th September 1885.	
	No. II, Kodaikánal ..	Púmbárai and Vilpatti valley.	13,587 2	21·23	..	..	13,587·2	21·23		
		Kudiraiyár	10,060·8	15·72	..	..	10,060·8	15·72		
		Kúkal	9,644·8	15·07	..	..	9,644·8	15·07		
		Marudanadiyár ..	6,528	10·20	..	..	6,528	10 20		
		Pámbukalar	800	1·25	..	..	800	1·25		
		Siruvattukádu	2,279·2	3 56	..	..	2,279·2	3 56		
		Kaniyankádu	3,001·6	4·69	..	..	3,001·6	4·69		
		Vennilai	4,800	7·50	..	..	4,800	7·50		
		Ariyanatukánal ..	..	..	64	..	64	0·10	No. 93, F.S.G.G., dated 24th March 1886.	Notified under sec. 16.
		Kumangovaimalaikádu ..	..	..	80	..	80	0·12		
		Petarenkánal	..	..	80	..	80	0·12		
		Velámkombai	..	..	1,600	..	1,600	2 50	No. 239, F.S.G.G., dated 4th September 1885.	
		Parappár	..	..	42	..	42	0 06		
		Shôlas on the Lower Palnis—								
		(a) Perumálmalai shôla	..	..	..	..	..	..		
		(b) Togavarai shôla ..	..	..	..	..	..	..		
		(c) Serutankanal shôla	..	..	..	..	..	..		
		(d) Arankanal shôla..	..	..	..	..	..	..		
		(e) Kadavu shôla ..	..							
		Shôlas on the Upper Palnis—								
		(a) Tiger shôla ..								
		(b) Parappar shôla ..								
		(c) Kodaikánal ..								
		(d) Pannitutamkanal								
		(e) Gundan and Manavan shôlas ..	2,316	3·62	..	..	2,316	3.62		
		(f) Gundar shôla ..								
		(g) Sandanam shôla ..								
		(h) Fort Hamilton ..								
		(i) Marian shola ..								

Area of reserved forests, 1885-86—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885. Acres.	Area on 1st April 1885. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1886. Acres.	Area on 31st March 1886. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Madura—*cont.*	No. II, Kodaikánal—*cont.*	*Plantations.*								
		Eucalyptus	16·12	0·02	* 0·50	..	16·62	0·03	....	* Purchased from the Rev. J. Nozes.
		Acacia	14	0·02	..	..	14	0·02	....	
		Velámkombai	54·14	0 08	..	..	54 14	0·08	....	Reserved forest and plantation.
		Jungle Conservancy.								
		Kodaikánal settlement ..	3	..	..	..	3	..	....	
		Púmbárai	6	..	..	..	6	..	....	
		Virupátchi	7·15	..	..	..	7·15	..	....	Reserved forest and tope.
		Sivagiripatti	1·15	..	..	..	1·15	..	....	
		Sirumalai	25,529·6	39 89	..	..	25,529·6	39·89	....	
		Mudimalai	6,086 4	9·51	..	..	6,086·4	9·51	....	
		Akkammakaradu	..	..	1,600	..	1,600	2·50	No. 101, F.S.G.G., dated 24th March 1886.	Transferred from 59 B.
		Kappuravallikuttu ..	..	..	2,560	..	2,560	4		
		Tenkal	..	..	3,200	..	3,200	5		
		Sundamalai . ..	..	..	2,240	..	2,240	3·50		
		Tannirkaradu	..	..	1,920	..	1,920	3		
		Kadavakurchi	5,120	8	..	..	5,120	8	....	
	No. III, Dindigul	Sengattampatti	4,480	7	..	..	4,480	7	....	
		Dindigul, at the junction of Trichinopoly and Karúr roads.	1	..	..	..	1	..	....	Reserved forest and tope.
		Dindigul Munsif's Court.	0·59	..	..	..	0·59	..	....	
		Dindigul race-course ..	4	..	..	..	4	..	....	
		Kôvilúr	1·19	..	..	..	1·19	..	....	
		Do.	0·15	..	..	..	0·15	..	....	
		Gúdalúr	1·18	..	..	..	1·18	..	....	
		Guvakapatti	130·52	0·20	..	..	130·52	0·20	....	
		Jungle Conservancy.								
	No. IV, Mélúr	Mudugamalai								
		Vellamalai	2,700	4·22	..	..	2,700	4·22	....	
		Perumálmalai								
		Pillaiyárnattam hills ..								
		Navinipatti	12	0·01	..	..	12	0·01	....	Reserved forest and tope.
		Jungle Conservancy.								
	No. V, Madura	Alagarmalai reserve ..	13,036	20·37	..	..	13,036	20·37	....	
		Tenapudupettai	126·78	0·20	..	..	126·78	0·20	....	
		Sakimangalam	467·94	0·73	..	..	467·94	0·73	....	
		Nágamalai	2,356	3·68	..	..	2,356	3·68	....	

Area of reserved forests, 1885-86—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885. Acres.	Area on 1st April 1885. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1886. Acres.	Area on 31st March 1886. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Madura—*cont.*	No. V, Madura—*cont.*	Ténúr	11·78	0·01	..	..	11·78	0·01		
		Tovarimán	21	0·03	..	..	21	0·03		
		Total	164,521 19	257·07	17,476·50	..	181,997·69	284 37		
Tinnevelly	Nánguneri	Reserve No. I	31,532·80	49·27	..	..	31,532·80	49·27		
	Ambásamudram	Do. „ II	91,008	142·20	..	..	91,008	142·20		
	Tenkási	Do. „ III	18,009 60	28·14	..	..	18,009·60	28·14		
	Sankaranainárkoil	Do. „ IV	19,737·60	30·84	..	..	19,737·60	30·84		
	Srívilliputúr	Do. „ V	23,270·40	36·36	..	..	23,270·40	36·36		
		Total	183,558·40	286·81	..	..	183,558·40	286·81		
Malabar (Wynaad and Pálghat).	Pálghat	Wálayár	3,017	4·71	..	..	3,017	4·71		
	Wynaád	Kuppadi	..	..	7,337·44	..	7,337·44	..	No. 178, F.S.G.G., dated 6th Nov. 1883, part I. No. 112, F S G.G., dated 21st April 1885, part I. No. 160, F.S.G G, dated 23rd June 1885, part I. No 191, F.S.G.G., dated 24th July 1885.	The areas were ascertained by actual survey.
		Kurichiyát	..	..	18,053·86	..	18,053·86	..		
		Rampúr	..	..	18,854 67	..	18,854 67	..		
		Núlpoya	..	..	3,613 28	..	3,613·28	..		
		Mavanahalli	..	..	12,576 64	..	12,576 64	..		
		Begúr	..	..	15,366	..	15,366	..		
		Total	3,017	4·71	75,801·89	..	78,818·89	123·15		
Malabar (Nilambúr.	Ernád taluk	Karimpôya	3,955 28	6·18	..	..	3,955·28	6·18	....	Reserved under section 25.
		Amarampalam	57·14	0·08	* 2·13	..	468 04	..	....	* As per survey map.
		Do.	..	..	† 408·77					† Plantation area omitted last year.
		Chatamborai	..	..	699·52	..	699·52	..	No. 174, F.S.G.G., dated 7th July 188 , part I.	
		Nellikutta		..	1,824·13	..	1,824 13	..	G.O., No. 189, dated 15th March 1886.	Transferred from 59B.
		Total	4,012·42	6·26	2,934·55	..	6,946·97	10 85		
South Canara.	....	Sabládi	208	0·32	..	..	208	·32	....	Survey not finally plotted. Correct calculations may show a slight difference.
	....	Ajjarkád	160	0·25	..	..	160	·25		
	....	Pillarkhán	320	0·50	..	..	320	·50		
	....	Chembuguddi	75	0·11	..	..	75	·11		
	....	Kuttiyár	25	0·04	..	..	25	·04		
	....	Poitage Kayar Pallar	96	0·15	..	..	96	·15		
		Total	884	1·37	..	..	884	1·37		
		Grand Total	712,549·63	1,113·35	272,590·77	8,425·92	976,714·48	1,526·12		

Annual Form No. 59-B.

Forest Department, Madras, Southern Circle.

Area of forests, 1885-86, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882.

District.	Range.	Name of forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Chingleput ..	Saidápet	Tandrai	664	..	..	664	..	..	....	Transferred to 59-A.
		Tirukalikundram	697	..	..	697	..	..	....	
		Oragadam	540	..	..	540	..	..	....	
		Maddayattur	697	..	..	697	..	..	....	
		Kambakam	13,705	..	..	13,705	..	..	....	
		Pandur	1,262	..	..	1,262	..	..	....	
	Tiruvallúr	Dasikuppam	339	..	..	339	..	..	....	Transferred to 59-C.
		Chenneri	553	..	..	553	..	..	....	
		Pudukuppam	958	..	..	958	..	..	....	
		Ambakam	2,300	..	..	2,300	..	..	....	
		Peridam	1,109	..	..	1,109	..	..	....	
		Sattivedu	2,633	..	..	2,633	..	..	....	
		Kotamarikuppam	1,890	..	..	1,890	..	..	....	
		Chinnatipakam	2,337	..	..	2,337	..	..	....	
		Aradur	1,002	..	..	1,002	..	..	....	
		Rachesla	415	..	..	415	..	..	....	
		Mappurpalli	858	..	..	858	..	..	....	
		Cherisu	404	..	..	404	..	..	....	
		Kadur	1,433	..	..	1,433	..	..	....	
		Nellatur	608	..	..	608	..	..	....	
		Gudalvarpalaiyam	454	..	..	454	..	..	....	
		Santanellore	580	..	..	580	..	..	....	
		Ugumudy	1,441	..	..	1,441	..	..	....	
		Damavellore	885	..	..	885	..	..	....	
		Plasapalaiyam	993	..	..	993	..	..	....	
		Hudsonpuram	920	..	..	920	..	..	....	
		Embrampuram	1,334	..	..	1,334	..	..	....	
		Hudsonnagaram	506	..	..	506	..	..	....	
		Alhkuli	832	..	..	832	..	..	....	
		Gangalukandigai	407	..	..	407	..	..	....	
		Grinvalattam	657	..	..	657	..	..	....	
		Namalur	938	..	..	..	938	..	....	
		Kallanur	482	..	..	..	482	..	....	
		Chengugram	327	..	..	..	327	..	....	
		Pelvakam	436	..	..	..	436	..	....	
		Sirnai	331	..	..	..	331	..	....	

Area of forests, 1885-86, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885. Acres.	Area on 1st April 1885. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1886. Acres.	Area on 31st March 1886. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Chingleput—*contd.*	Tiruvallúr—*contd.*	Sunkarai	630	..	..	..	630	..	....	
		Mukarambakam	590	..	..		590	..	....	
		Nagalapuram	4,557	..	..	4,557	..	..	....	Transferred to 59-C.
		Ramgiri	1,684	..	..	1,864	..	..	....	
		Kishnapuram	272	..	..	272	..	..	....	
		Reppalpatti	2,222	..	..	2,222	..	..	....	
		Mudiyur	655	..	..	655	..	..	....	
		Kolatúr	248	..	..	..	248	..	....	
		Palavakam	436	..	..	..	436	..	....	
		Irukolu	156	..	..	..	56	..	....	
		Total ..	57,377	89·65	..	52,803	4,574	7·15		
North Arcot ..	Vellore. Vellore taluk ..	Tellai	12,800	..	..	12,800	..	..	....	Transferred to 59-C.
	Vellore. Tirupatúr taluk.	Sandal reserve	12,800	..	..	12,800	..	..	....	
	Palmáner. Palmáner taluk.	Timber reserve	19,200	..	..	19,200	..	..	....	
		Musalimadugu	9,600	..	..	9,600	..	..	....	Transferred to 59-A.
		Basuvareddipalle	10,240	..	..	10,240	..	..	....	
	Palmáner. Palmáner and Gudiyátam taluks.	Mortana reserve	16,000	..	..	16,000	..	..	....	
		Naikaneri reserve	6,400	..	..	6,400	..	..	....	
		Peddur	9,600	..	..	9,600	..	..	....	
	Chandragiri. Chandragiri taluk.	Napier reserve	8,772	..	..	8,772	..	..	....	
		Mamandur reserve	1,776	..	..	1,776	..	..	....	
		Chamala reserve	9,600	..	..	9,600	..	..	....	
		Panapak reserve	6,400	..	..	6,400	..	..	....	
		Podiyatlabail	2,560	..	..	2,560	..	..	....	
	Chandragiri. Chittoor taluk.	Paradarami	6,400	..	..	6,400	..	..	....	
		Total ..	132,148	206·48	..	132,148	..	..		
South Arcot ..	Tiruvannámalai taluk..	Tenmalai	23,040	..	..	23,040	..	..	....	Transferred to 59-C.
		Mudinai forest	3,840	..	..	3,840	..	..	....	
		Chinnasamudram	6,400	..	..	6,400	..	..	....	
		Perungolatturswami malai ..	4,800	..	..	4,800	..	..	....	
		Annamalai kasba hill and neighbourhood.	3,840	..	..	1,760	2,080	..	....	* Transferred to 59-A.
		Tandrampet	11,500	..	..	..	11,500	..	....	
		Kadambai	1,000	..	..	..	1,000	..	....	
		Tippakadu	6,000	..	..	6,000	..	..	....	Transferred to 59-C.
		Tachampet including Atipakam ..	1,000	..	..	..	1,000	..	....	

Area of forests, 1885-86, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range	Name of forest.	Area on 1st April 1885.		Added during the year	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer	Remarks.
			Acres	Equivalent in square miles.	Acres	Acres.	Acres	Equivalent in square miles.		
South Arcot—*continued.*	Tindivanam taluk—*continued.*	Muttakadu	3,087	..	..	3,087	..	..	....	Transferred to 59-C.
		Siruvadi (including Kotamangalam).	3,333	..	..	3,333	..	..	....	
		Annamangalam	250	..	..	..	250	..	....	
		Valland Sevur	1,115	..	..	..	1,115	..	....	
		Padipallam	3,735	..	..	3,735	..	..	....	Transferred to 59-C.
		Periyanur Pakamalai	9,026	..	..	9,026	..	..	....	
		Nangilikondan	50	..	..	..	50	..	....	
		Natamangalam	30	..	..	..	30	..	....	
		Vilukam	100	..	..	..	100	..	....	
		Peradikuppam	1,400	..	..	1,400	..	..	....	Transferred to 59-C.
		Agur	1,500	..	..	1,500	..	..	....	
		Nanduvandur	2,500	..	..	2,500	..	..	....	
		Bomnatur	300	..	..	300	..	..	....	
		Panchalam	1,200	..	..	1,200	..	..	....	
		Saram..	150	..	..	150	..	..	....	
		Olakur	300	..	..	..	300	..	....	
		Roshanai	50	..	..	..	50	..	....	
		Salavadi	70	..	..	70	..	..	....	Transferred to 59-C.
		Jaggampet	340	..	..	340	..	..	....	
		Edayalam	400	..	..	..	400	..	....	
		Eriyanur	95	..	..	..	95	..	....	
		Janagampet	108	..	..	..	108	..	....	
		Kilsevur	1,200	..	..	1,200	..	..	....	Transferred to 59-C.
		Senalur	150	..	..	..	150	..	....	
		Mannur	50	..	..	..	50	..	....	
		Nemmali	300	..	..	..	300	..	....	
		Endur..	50	..	..	..	50	..	....	
		Bramhadesam	50	..	..	..	50	..	....	
		Vannippei	50	..	..	..	50	..	....	
		Kamalampet	1,200	..	..	1,200	..	..	....	Transferred to 59-C.
		Nadukuppam to Bramhadesam ..	400	..	..	..	400	..	....	
		Alatur..	300	..	..	300	..	..	....	Transferred to 59-C (included in Kurambaram Bits, Nos. 1 and 2).
		Kandadu	370	..	..	..	370	..	....	
		Omapper	20	..	..	..	20	..	....	
		Atikuppam	185	..	..	185	..	..	....	Transferred to 59-C.
		Merkanam	500	..	..	500	..	..	....	

Area of forests, 1885-86, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot—*continued.*	Tindivanam taluk—*continued.*	Mailam	265	..	..	..	265	..	....	
		Karai	1,344	..	..	1,344	..	..	....	Transferred to 59-C.
	Villupuram taluk ..	Tandavasamudram	3,000	..	..	..	3,000	..	....	
		Matur	540	..	..	..	540	..	....	
		Gangavaram	8,740	..	..	8,740	..	..	....	Transferred to 59-C.
		Turinjikadu	1,104	..	..	..	1,104	..	....	
		Odayanatam and Kadagam ..	1,000	..	..	..	1,000	..	....	
		Vanur first bit	200	..	..	..	200	..	....	
		Vanur second bit	150	..	..	..	150	..	....	
		Kolikoil	200	..	..	..	200	..	....	
		Chengadu	100	..	..	..	100	..	....	
		Vakkur	200	..	..	..	200	..	....	
		Kappiyanur	545	..	..	..	545	..	....	
		Mutampalaiyam	50	..	..	..	50	..	....	
		Navamal Maradur	80	..	..	..	80	..	....	
		Aliyur..	70	..	..	..	70	..	....	
		Neliyanur	70	..	..	..	70	..	....	
		Valavanur	344	..	..	..	344	..	....	
		Pakam..	350	..	..	..	350	..	....	
		Sorapur	50	..	..	..	50	..	....	
		Marudur	70	..	..	..	70	..	....	
		Villupuram kasba tank	100	..	..	..	100	..	....	
		Valutareddi	130	..	..	..	130	..	....	
		Kondampakam	60	..	..	..	60	..	....	
		Olaikai..	50	..	..	..	50	..	....	
		Kappur	50	..	..	..	50	..	....	
		Kondangi	100	..	..	..	100	..	....	
		Nannadu	100	..	..	..	100	..	....	
		Perumbakam..	100	..	..	..	100	..	....	
		Devanampet	100	..	..	..	100	..	....	
		Tiruvamatur	28	..	..	..	28	..	....	
		Tennamadevi..	51	..	..	..	51	..	....	
		Adanur	1,449	..	..	..	1,449	..	....	
		Oratur	228	..	..	..	228	..	....	
		Tangal	57	..	..	..	57	..	....	
		Karanai	200	..	..	..	200	..	....	
		Gundalapuliyur	844	..	..	..	844	..	....	
		Siravalai (Arumbili)	1,014	..	..	..	1,014	..	....	
		Vembi..	256	..	..	..	256	..	....	

Area of forests, 1885-86, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range.	Name of forest.	Area on 31st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot.—*continued.*	Villupuram taluk—*continued.*	Narasinganur	377	..	..	..	377	..	....	
		Vikravándi proper	450	..	..	..	450	..	....	
		Do. tangal	20	..	..	..	20	..	....	
		Melakondai	495	..	..	..	495	..	....	
		Satanur	233	..	..	..	233	..	....	
		Panampattu	250	..	..	..	250	..	....	
		Saliyampalaiyam	70	..	..	..	70	..	....	
		Nemmali	100	..	..	..	100	..	....	
		Dadavaram	200	..	..	..	200	..	....	
		Tiruvakkarai	1,000	..	..	..	1,000	..	....	
		Tuluvai	150	..	..	..	150	..	....	
	Cuddalore taluk ..	Ramapuram and Valicheripalaiyam.	1,091	..	..	..	1,091	..	....	
		Vellakkarai	1,600	..	..	..	1,600	..	....	
		Sebambanadampet	651	..	..	..	651	..	....	
		Budrakotai	344	..	..	..	344	..	....	
		Sammatikuppam	343	..	..	..	343	..	....	
		Chinnadamakuppam and Kallujagai	700	..	..	..	700	..	....	
		Velankuppam	1,000	..	..	..	1,000	..	....	
		Kangiruppu	2,250	..	..	..	2,250	..	....	
		Vadakutu	3,400	..	..	..	3,400	..	....	
		Velrampet	1,800	..	..	..	1,800	..	....	
		Vellaiyankuppam	1,700	..	..	..	1,700	..	....	
		Kaliyankuppam	150	..	..	..	150	..	....	
		Kuttiyambakam	100	..	..	..	100	..	....	
		Siruvatur	300	..	..	..	300	..	....	
	Chidambaram taluk ..	Pichavaram	2,000	..	..	..	2,000	..	....	
		Ramapakam	800	..	..	..	800	..	....	
		Kondapuram	1,200	..	..	..	1,200	..	....	
		Pavanjinallur	200	..	..	..	200	..	....	
		Kollatankurchi	350	..	..	..	350	..	....	
		Nisangam	800	..	..	..	800	..	....	
		Adivaraganallur	1,200	..	..	..	1,200	..	....	
		Kolakudi (east of road)	600	..	..	..	600	..	....	
		Pinnalur Wálajápet tank block ..	400	..	..	..	400	..	....	
		Manamádévi	150	..	..	..	150	..	....	
		Viranam tank	1,500	..	..	..	1,500	..	....	
	Vriddháchalam taluk ..	Velankulam and Vennakuli ..	500	..	..	..	500	..	....	
		Semakotai and Palaiyapatnam ..	4,500	..	..	..	4,500	..	....	
		Pallipattu	1,500	..	..	..	1,500	..	....	

Area of forests, 1885-86, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range	Name of forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks
			Acres.	Equivalent in square mile.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot—*continued.*	Vriddháchalam taluk—*continued.*	Erulakurchi (Nadiyapet)	300	..	..	..	300	..	....	
		Melakuppam kulam	600	..	..	..	600	..	....	
		Parur	3,000	..	..	..	3,000	..	....	
		Narimadam	600	..	..	..	600	..	....	
		Ammeri	500	..	..	..	500	..	....	
		Kuppanatam	750	..	..	..	750	..	....	
		Satamangalam	200	..	..	..	200	..	....	
		Arasuguli	100	..	..	..	100	..	....	
		Kolapakam	600	..	..	..	600	..	....	
		Kammapuram	600	..	..	..	600	..	....	
		Karmangudi	2,000	..	..	..	2,000	..	....	
		Narasingamangalam	1,200	..	..	..	1,200	..	....	
		Kotanur	2,700	..	..	..	2,700	..	....	
		Memadur	500	..	..	..	500	..	....	
		Pillur	800	..	..	..	800	..	....	
		Pulambodi	2,000	..	..	..	2,000	..	....	
		Alambalam	2,000	..	..	..	2,000	..	....	
		Aderi	1,000	..	..	..	1,000	..	....	
		Katumailur	800	..	..	..	800	...	....	
		Naraiyur	3,000	..	..	..	3,000	..	....	
		Nangur	1,800	..	..	..	1,800	..	....	
		Mangalam	300	..	..	..	300	..	....	
		Alliyur	150	..	..	..	150	..	....	
		Pinjanur	200	..	..	..	200	..	....	
		Kasba tank	200	..	..	..	200	..	....	
	Tirukoilúr taluk ..	Nattamur	9,500	..	..	..	9,500	..	....	
		Chitamur	3,000	..	..	..	3,000	..	....	
		Arunavaram	2,650	..	..	..	2,650	..	....	
		Odiyatur	2,500	..	..	..	2,500	..	....	
		Endur	1,000	..	..	..	1,000	..	....	
		Virinjipuram and Kandachepuram.	1,500	..	..	..	1,500	..	....	
		Adukam (Tandrai)	1,500	..	..	..	1,500	..	....	
		Atipakam	2,000	..	..	..	2,000	..	....	
		Sadakati	500	..	..	..	500	..	....	
		Swamimalai	4,000	..	..	..	4,000	..	....	
		Marudur (Kunnaturmalai) ..	2,220	..	..	..	2,220	..	....	
		Ulandurpet (Pandur)	2,500	..	..	..	2,500	..	....	
		Edakal proper (south side) ..	900	..	..	..	900	..	....	
		Edakal proper (north of road) ..	3,600	..	..	..	3,600	..	....	
		Alwarmalai	6,500	..	..	..	6,500	..	....	
		Siruvakam	1,200	..	..	..	1,200	..	....	

Area of forests, 1885-86, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot—*continued.*	Tirukoilúr taluk—*continued.*	Kuladi	2,250	..	..	..	2,250	..	....	
		Sidevi	3,000	..	..	..	3,000	..	....	
		Kunjaram	1,500	..	..	..	1,500	..	....	
		Kallamedu	500	..	..	..	500	..	....	
		Elandorai (late Ponnavalam) ..	200	..	..	..	200	..	....	
		Tiruvennanallúr	40	..	..	..	40	..	....	
		Emappur	70	..	..	..	70	..	....	
		Siruvanur	50	..	..	..	50	..	....	
		Irruvelpet	50	..	..	..	50	..	....	
		Melamangalam	40	..	..	..	40	..	....	
		Mámandúr	50	..	..	..	50	..	....	
		Gramam	40	..	..	..	40	..	....	
		Elandorai tank	40	..	..	..	40	..	....	
		Panapakam	50	..	..	..	50	..	....	
		Sitilingamandam	70	..	..	..	70	..	....	
		Maradur tank bed	60	..	..	..	60	..	....	
		Pudupalaiyam	40	..	..	..	40	..	....	
		Palayagaram	65	..	..	..	65	..	....	
	Kallakurchi taluk ..	Kanakadu	1,200	..	..	..	1,200	..	....	
		Kadambúr	100	..	..	..	100	..	....	
		Kaduvanur	1,500	..	..	..	1,500	..	....	
		Katuvananjur	800	..	..	..	800	..	....	
		Lálápet forest (including Chittal)..	1,500	..	..	..	1,500	..	....	
		Vengalam (Pasar)	3,000	..	..	..	3,000	..	....	
		Rishivendiyam	3,000	..	..	..	3,000	..	....	
		Nilamangalam	150	..	..	..	150	..	....	
		Emaputtur	1,000	..	..	..	1,000	..	....	
		Kolatúr	300	..	..	..	300	..	....	
		Indali	1,000	..	..	..	1,000	..	....	
		Kotalammalai	2,500	..	..	..	2,500	..	....	
		Nagalur	900	..	..	..	900	..	....	
		Porasakurchi..	750	..	..	..	750	..	....	
		Varanasaram..	450	..	..	..	450	..	....	
		Kuttakudi	1,000	..	..	..	1,000	..	....	
		Kilanariyappanur	1,500	..	..	..	1,500	..	....	
		Vardiyappanur	500	..	..	..	500	..	....	
		Chinna Salem	200	..	..	..	200	..	....	
		Tottapadi	250	..	..	..	250	..	....	
		Total ..	253,932	396·76	..	85,950	167,982	262·47		

Area of forests, 1885-86, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District	Range	Name of forest	Area on 1st April 1885		Added during the year	Excluded or transferred to other heads	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks
			Acres	Equivalent in square miles.	Acres	Acres	Acres.	Equivalent in square miles.		
Salem	....	....	..	..	..	..	..	..	....	
Trichinopoly ..	Kulitalai taluk ..	Tuvagudi	1,438	..	..	1,438	..	..	....	Transferred to 59-C
		Sripurandan	486	..	..	..	486	..	....	
		Nagamangalam	400	..	..	.	400	..	....	
		Total ..	2,324	3 63	..	1,438	886	1 38	....	
Tanjore	Northern range ..	Vettangudi	1,900	..	..	..	1,900	..	....	
		Kodivakadu (Point Calimere) ..	4,355	..	..	4,355	..	..	....	Transferred to 59-C.
		Andrakadu	64	..	..	..	64	..	....	
		Settipallam	421	..	..	..	421	..	....	
		Samudravéli	270	..	..	..	270	..	....	
		Naluvedapadi	374	..	..	..	374	..	....	
		Pudugidapatam	66	..	..	..	66	..	....	
		Tandalai	283	..	..	..	283	..	....	
	Western range ..	Nadur..	421	..	..	..	421	..	....	
		Ichankotai	77	..	..	..	77	..	....	
		Kollangorai	109	..	..	..	109	..	....	
		Marungulam	152	..	..	..	152	..	....	
		Karungulam Melpadi .. .	389	..	..	..	389	..	....	
		Tachankurchi	161	..	..	..	161	..	....	
		Pudukudi Vadapadi..	212	..	..	..	212	..	....	
		Kangiyampatti	67	..	..	..	67	..	....	
		Kannanitangudi Kilayur	232	..	..	..	232	..	....	
		Puvadur	205	..	..	..	205	..	....	
		Tirumangalakotai Vulayur.. .	437	..	..	..	437	..	....	
		Do Melayur ..	514	..	..	..	514	..	....	
		Ponnappur	181	..	..	..	181	..	....	
		Apparasampet	76	..	..	..	76	..	....	
		Total ..	10,966	17 13	..	4,355	6,611	10 33		
Coimbatore North)	....	....	..	..	..	..	4,355	..	....	
Coimbatore (South)	Udamalpet	Fuel reserve of Eliyamutur ..	63	..	..	..	63	..	....	
		Do. of Tandoni	60	..	..	..	60	..	....	
		Do. of Dhalli	485	..	..	..	485	..	....	
	Palladam	Arasur	58	..	..	..	58	..	....	
		Nachipalaiyam	63	..	..	..	63	..	....	
		Ammapalaiyam	61	..	..	..	61	..	....	

Area of forests, 1885-86, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885.		Added during the year.	Excluded on transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Coimbatore (South)—*contd.*	Palladam—*continued.*	Kaduvellipalaiyam	82	..	..	..	82	..	....	
		Permanallur	81	..	..	..	81	..	....	
		Pedumpalaiyam	66	..	..	..	66	..	....	
		Kotamangalam	3	..	..	..	3	..	....	
		Chinnamalaipalaiyam	9	..	..	..	9	..	....	
		Gudimangalam	5	..	..	..	5	..	....	
		Pulamkinar	4	..	..	..	4	..	....	
		Pukkulam	14	..	..	..	14	..	....	
		Pulavadi	8	..	..	..	8	..	....	
		Madatukulam	3	..	..	..	3	..	....	
		Kanatkadavu	8	..	..	..	8	..	....	
		Sankarayapuram	100	..	..	..	100	..	....	
		Mutiyampalaiyam	4	..	..	..	4	..	....	
		Periyakolandai	3	..	..	..	3	..	....	
		Kotampatti	6	..	..	..	6	..	....	
		Anupatti	3	..	..	..	3	..	....	
		Sittambalam	3	..	..	..	3	..	....	
		Kottamur	3	..	..	..	3	..	....	
		Manikapuram	5	..	..	..	5	..	....	
		Tirupúr	5	..	..	..	5	..	....	
		Vadugapalaiyam	8	..	..	..	8	..	....	
		Ganapadipalaiyam	5	..	..	..	5	..	....	
		Appanaiyakanpatti	10	..	..	..	10	..	....	
		Nilambúr	10	..	..	..	10	..	....	
		Silakarakal	5	..	..	..	5	..	....	
		Agrarapatur	5	..	..	..	5	..	....	
	Bolampatti	At the toll-gate on the road to Tadagam	9	..	..	..	9	..	....	
		At the toll-gate east of Puliyakulam road	55	..	..	..	55	..	....	
		Total ..	1,312	2·05	..	..	1,312	2·05	....	
		Old Railway tracts.								
Madura ..	No. III or Dindigul range.	Akkamakaradu	1,600	2·50	..	1,600	..	..	Notification No. 101, dated 19th March 1886, published in *Fort St. George Gazette* of 24th March 1886.	Transferred to 59-A.
		Kupiranikuttu	2,560	4	..	2,560	..	..		
		Sundamalai	2,240	3·50	..	2,240	..	..		
		Tannirkaradu	1,920	3	..	1,920	..	..		
		Tenikal	3,200	5	..	3,200	..	..		
	No. V, Madura range.	104 tank beds in Tirumangalam taluk	4,000	6·25	..	..	4,000	6·25		
		Total ..	15,520	24·25	..	11,520	4,000	6·25		

Area of forests, 1885-86, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Tinnevelly ..	....	....	..	..	..	..	..	..	....	
Malabar (Wynaad and Pálghat).	Wynaad	Kudrakot	41,500	..	..	(a) 41,500	..	..	....	(a) 15,366 acres constituted reserved forest (*vide* No. 7 of area of reserved forests) and 26,134 acres transferred to 59-C.
		Padri	22,400	..	..	22,400	..	..	....	Transferred to 59-C.
		Chedlet	44,249	..	..	(b) 44,249	..	..	....	(b) Of this 44,245·97 acres were constituted reserved forest and 3·3 acres struck off being excess erroneously entered in last year's statement.
		Trans benni	16,190	..	..	* 16,190	..	..	..	* Transferred to 59-A.
		Cardamom forest	13,440	..	..	13,440	..	..	....	
		Kanot	25,600	..	..	25,600	..	..	....	Transferred to 59-C.
	Pálghat	Chenat Nair forest	16,369	..	..	16,369	..	..	....	
		Forest land near Doni	150	..	..	150	..	..	....	
		Tiruvazhamkunnu *alias* Pannikaradu.	1,000	..	..	1,000	..	..	....	Transferred 59-D.
		Tamburot Putta *alias* Pilacheri Pallam.	100	..	..	100	..	..	....	Transferred to 59-C.
		Total ..	180,998	282·81	..	180,998	..	..		
Malabar (Nilambúr).	Nilambúr	Nellikutta	1,799	..	..	1,799	..	..	....	Transferred to 59-A.
		Pokote	761	..	..	..	761	..	....	
		Panangod	462	..	† 397·09	..	859·09	..	....	† Plantation area omitted in previous year's returns
		Chatambarai	61	..	..	‡ 61	..	..	....	‡ Transferred to 59-A.
		Valuvasheri	330	..	† 584	..	914	..	....	
		Edakód	3,666	..	† 692·52	..	4358·52	..	....	
		Arimbrakutta	300	..	† 22	..	322	..	....	
		Kanakut	669	..	..	..	669	..	....	
		Erambadam	581	..	..	..	581	..	....	
		Kariyan	951	..	† 51·10	..	1002·10	..	....	
		Muriyat	1,765	..	..	..	1,765	..	....	
		Total ..	11,345	17·72	1,746·71	1,860	11,231·71	17·55		
South Canara ..	....	....	..	..	..	..	..	..		
		Grand Total ..	665,922	1,040·50	1,746·71	471,072	196,597·	307·19		

Annual Form No. 59-C.

Forest Department, Madras, Southern Circle.

Area of Reserved Lands, Forests, 1885-86.

[Note.—When necessary, this form may be used for Forests other than those reserved under the Madras Act.]

District.	Range.	Name of Forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square miles.	Acres.	Acres.	Acres.	Equivalent in Square miles.		
Chingleput	Tiruvallúr	Pulrambakam	408	..	..	..	408	..	Board's Procs., No. 3195/Forest 288, dated 12th Sept. 1884.	
		Kanneripettai	71	..	..	..	71	..		
		Tiruvalambudur	62	..	..	..	62	..		
		Dásikuppum	..	..	339	..	339	..		Notified under section 4 in February 1885.
		Chennéri	..	..	553	..	553	..		
		Pudukuppam	..	..	958	..	958	..		
		Ambákam	..	..	2,300	..	2,300	..		
		Péridam	..	..	1,109	..	1,109	..		
		Sattivédu	..	..	2,633	..	2,633	..		
		Kotamárikuppam	..	..	1,890	..	1,890	..	....	Do. do. do.
		Chinnatipakam	..	..	2,336	..	2,336	..		
		Aradúr	..	..	1,002	..	1,002	..		
		Rácherla	..	..	415	..	415	..	....	Do. do. do. Transferred from 59-B.
		Móppúrpalle	..	..	859	..	859	..		
		Cherisu	..	..	404	..	404	..		
		Kádúr	..	..	1,432	..	1,432	..		
		Nellatúr	..	..	608	..	608	..	....	Notified under section 4 in February 1885.
		Gúdalvárpálaiyam	..	..	455	..	455	..		
		Santanellore	..	..	580	..	580	..		
		Ugumudi	..	..	1,441	..	1,441	..	....	Do. do. do.
		Dámanallúr	..	..	885	..	885	..		
		Plasapalaiyam	..	..	993	..	993	..		
		Hudsonpuram	..	..	920	..	920	..	....	Do. do. do.
		Embrampuram	..	..	1,334	..	1,334	..		
		Hudsonnagaram	..	..	506	..	506	..		
		Allikuli	..	..	832	..	832	..	....	Transferred from 59-B.
		Gangalukandigai	..	..	407	..	407	..		
		Grinvalattam	..	..	657	..	657	..		Notified under section 4 in March 1885.
		Nágalápuram	..	..	4,557	723	3,834	..		
		Rámgiri	..	..	1,684	151	1,533	..		
		Kishnápuram	..	..	272	160	112	..	....	Notified under section 4 in December 1885.
		Reppalpatti	..	..	2,222	28	2,194	..		
		Mudiyúr	..	..	660	..	660	..		
	Madurántakam	Lattur	1,011	..	..	..	1,011	..		
		Nadumaram	198	..	..	..	198	..		
		Venmani	238	..	..	..	238	..		
		Madayambakam	241	..	..	..	241	..		
		Sattamai	135	..	..	..	135	..		

Area of Reserved Lands, Forests, 1885-86—*continued.*

District	Range.	Name of Forest.	Area on 1st April 1885. Acres.	Area on 1st April 1885. Equivalent in Square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1886. Acres.	Area on 31st March 1886. Equivalent in Square miles.	Number and date of notification of addition or transfer.	Remarks.
Chingleput—*cont.*	Madurántakam—*cont.*	Kattugudalur	4,273	..	..	..	4,273	..	Board's Procs., No. 2767/Forest 543, dated 29th September 1885.	
		Rajapalaiyam	806	..	..	..	806	..		
		Acharapákam	924	..	..	60	864	..		
		Kurambarai	250	..	..	..	250	..		
		Endatur	168	..	..	..	168	..		
		Tandalam	1,587	..	..	..	1,587	..		
		Tirunallur	503	..	..	..	503	..		
		Kannimangalam	142	..	..	..	142	..		
		Narayamputtur	326	..	..	..	326	..		
		Karukali	600	..	..	..	600	..		
		Kadahamangalam	731	..	..	..	731	..		
		Vadatavur	1,078	..	..	..	1,078	..		
		Vinayaganallur	127	..	..	..	127	..		
		Kunamkolattur	106	..	..	..	106	..		
		Bapanallur	538	..	..	..	538	..		
	Conjeeveram	Katrambakam	..	..	601	..	601	..	Board's Procs., No. 1294/242-A, dated 30th April 1885.	
		Puduppur	..	..	90	..	90	..		
		Mannur	..	..	585	..	585	..		
	Chingleput	Muttukadu	..	..	86	..	86	..	Board's Procs., No. 1413/90, dated 25th April 1885.	
		Vandalúr	..	..	3,207	..	3,207	..	....	Notified under section 4 in March 1885.
	Saidápet. Ponnéri taluk .. / Saidápet do. ..	Alamari	..	..	1,263	..	1,263	..	Board's Procs., Forest No. 661, dated 1st December 1885.	Notified under section 4 in January 1886.
		Total ..	14,523	22·69	41,074	1,122	54,475	85·12		
North Arcot.	Vellore—Pólúr taluk ..	Kapalur	1,280	2	..	* 13	1,267	1·97	....	Demarcated.
		Kelur	3,068	4·79	* 469	..	3,537	5·52		
		Alliyamangalam	10,502	16·4	..	* 440	10,062	15·72		
	Chandragiri—Chittoor taluk.	Chittoor	2,560	4	..	† 2200·36	359·64	·56	....	Demarcated and surveyed.
		Santapet	2,560	4	..	† 283·54	2276·46	3·55		
		Airala	6,400	10	..	..	6,400	10		
		Panamúr	6,400	10	..	..	6,400	10		
		Bommasamudram	3,000	4·68	..	1574·09	1425·92	2·22		
		Chillapalle	1,063	1·66	† 232·85	..	1295·85	1·97		
		Kinatipalle	2,856	4·46	..	† 1439·49	1416·51	2·21		

Area of Reserved Lands, Forests, 1885-86—*continued.*

District.	Range.		Name of Forest.	Area on 1st April 1885. Acres.	Area on 1st April 1885. Equivalent in Square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1886. Acres.	Area on 31st March 1886. Equivalent in Square miles.	Number and date of notification of addition or transfer.	Remarks.
North Arcot—*contd.*	Head-quarters.	Wálajápet taluk.	Gúdalúr	559	·87	..	* 23·61	535·39	·83	....	Demarcated, surveyed and fenced.
			Kolatur	1,996	3 11	..	* 216 88	1779·12	2·77		
			Ammanur	210	·32	..	* 6·73	203·27	·31		
			Uriyúr or Anantapuram ..	672	1·05	..	* 132·21	539 79	·84		
			Banavaram	1,071	1·67	* 34 55	† 21	1084·55	1·69		
			Amur	6,018	9 4	* 1 52	..	6019·52	9 4	....	Partly demarcated.
			Minnel	1,395	2·1	..	17·41	1377·59	2 15	....	Partly demarcated, surveyed and fenced.
		Arcot taluk.	Sátúr	1,048	1·63	..	..	1048·	1·63	....	Demarcated.
			Sennaleri	1,185	1·85	..	* 829	356·	·55		
			Enadivadi	1,566	2·44	..	..	1566·	2 44		
			Tandalappan tangal ..	1,154	1 8	..	..	1154·	1· 8		
			Sholavaram	1,281	2·	..	..	1281·	2·		
		Wandiwash taluk.	Ponnur	1,676	2·61	..	* 736·56	939·44	1·46	Board's Procs., No. 2700 / Forest 222, dated 6th August 1884.	Demarcated, surveyed and fenced.
			Venkundram	822	1·28	* 466 10	..	1288·10	2·01		
			Badur	829	1·29	* 44·65	..	873·35	1·36		
			Nombidu	929	1·45	..	208 89	720·11	1 12	....	Demarcated.
			Kodiyalam	255	·39	..	130 20	124·80	·19	....	Demarcated, surveyed and fenced.
	Vellore—Pólúr taluk ..		Nedungal	3,632	5·67	* 13·10	..	3645·10	5·69	....	Demarcated.
			Vishamangalam	1,148	1·79	* 10	..	1148 10	1 79		
			Nedugunam	1,798	2 80	..	† ·82	1797·18	2 80		
			Brahma Katteri	1,589	2·48	..	953 99	635·1	·99		
			The slopes of the Javadi hills in the Pólúr taluk including the jungle at their foot.	..	..	32,000	..	32,000	50	Board's Procs., No. 4214 / Forest 436, dated 8th December 1884.	
			Putur (Old Tirupatúr sandal reserve).	..	..	12,800	..	12,800	20	....	Transferred from 59-B. Demarcated. Notified under section 4.
			Patrakad (Do. timber reserve).	..	..	19,200	..	19,200	30		
	Vellore—Vellore taluk ..		Javadi Hills block	..	..	Say 64,000	..	64,000	100	Board's Procs, No. 993 / Forest 183, dated 25th March 1885.	
			Arasampet do.								
			Naikaner do.								
			Tellai	..	..	15121 01	..	15121·01	23·62	....	Demarcated and surveyed. Transferred from 59-B.

* Corrected according to Board's Proceedings
† Do. do. to Survey.

Area of Reserved Lands, Forests, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885. Acres.	Area on 1st April 1885. Equivalent in Square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1886. Acres.	Area on 31st March 1886. Equivalent in Square miles.	Number and date of notification of addition or transfer.	Remarks.
North Arcot—*contd.*	Chandragiri — Chandragiri taluk.	Ballipalle block	..	..	Say 96,000	..	96,000	150	Board's Procs., No. 2329 / Forest 436, dated 13th August 1885.	Demarcated and fenced.
		Nagapatla do.								
		Mungilpentla do.								
	Palmaner. — Gudiyátam taluk	Korapatla do.	..	..	say 32,000	..	32,000	50	Board's Procs., No. 4214, dated 8th December 1884.	
		Pettalakuppam do								
		Gundalapalle								
		Panamadangi block ..								
	Head-quarter. — Wálajápet taluk.	Vikramasi reserve	161	·25	..	..	161	·25	....	
		Vidantangal	..	..	64·46	..	64 46	·09	....	
		Balakishnapuram	..	..	63·4	..	63·4	·07	....	
		Katupakam	..	..	145·24	..	145·24	·22	....	
		Ayal	..	..	15·83	..	15·83	·02		
		Tenkal	120	18	130	..	250	·39		
		Head Assistant Collector's office compound.	..	..	4	..	4	..	....	Notified under section 4 in January 1884.
		Total ..	70,803	110 62	272805·81	9227·78	334381·03	522·47	....	
South Arcot.	Tindivanam	Siruvadi	..	..	3,333	..	3,333	..	....	Transferred from 59-B.
		Muttakadu	..	..	3,087	..	3,087	..	....	
		Kórái	..	..	1,344	..	1,344	..	....	Notified under section 4 in June 1885.
		Padipallam	..	..	3,735	..	3,735	..	....	
		Pakamalai	..	..	9,026	..	9,026	..	....	
	Villupuram	Gangavaram	..	..	8,740	..	8,740	..	....	Transferred from 59-B.
	Tiruvannámalai taluk ..	Chinnasamudram	..	..	6,400	400	6,000	..		
		Anandavadi	..	..	6,400	400	6,000	..	....	Do. do. 59-D.
		Valasamalai	..	..	7,040	40	7,000	..		
		Mudinai forest	..	..	4,000	..	4,000	..	....	Do. do. 59-B.
		Kavutumalai	..	..	6,400	400	6,000	..	....	Do. do. 59-D
		Tippakadu	..	..	6,400	400	6,000	..	....	Transferred from 59-B. and D
		Perungolatur Swamimalai..	..	..	10,880	1,880	9,000	..	....	Notified under section 4 in December 1885. Transferred from 59-B. and D
		Tenmalai	..	..	23,040	3,040	20,000	..	....	Transferred from 59.B.
		Pilamaratur or Gerugamandiyar.	..	..	8,000	..	8,000	..	....	
		Nallapattu	..	..	7,000	..	7000	..	....	
	Tindivanam	Agaram	..	..	600	..	600	..	....	Notified under section 4 in January 1886.
		Merkanam	..	..	500	420	80	..	....	
		Kurambaram, first bit ..	..	..	300	..	300	..	....	Transferred from 59-B.
		Do. second bit ..	..	..	150	..	150	..	....	

Area of Reserved Lands, Forests, 1885-86—*continued*

District.	Range.	Name of Forest.	Area on 1st April 1885. Acres.	Area on 1st April 1885. Equivalent in Square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1886. Acres.	Area on 31st March 1886. Equivalent in Square miles.	Number and date of notification of addition or transfer.	Remarks.
South Arcot—*contd.**	Tindivanam—*continued* ..	Kamalampet	..	..	1,200	..	1,200	..	....	Transferred from 59-B.
		Kilsevur	..	..	1,200	..	1,200	..		
		Panchalam	..	..	1,200	..	1,200	..		
		Bomnatur	..	..	300	..	300	..		
		Peradikuppam	..	..	1,400	..	1,400	..		
		Agur	..	..	1,500	300	1,200	..		
		Nanduvandur	..	..	2,800	..	2,800	..	....	Do. do.
		Saram	..	..	250	..	250	..		
		Salavádi	..	..	70	..	70	..		
		Jággampet	..	..	340	40	300	..		Notified under section 4 in January 1886.
		Atikuppam	..	..	185	35	150	..		
		Akshikádu	..	..	450	..	450	..		
		Total ..	..	..	127,270	7,355	119,915	187·37		
Salem ..	Salem	Bodamalai reserve	5,600	8·75	..	..	5,600	8·75		
	Atúr and Námakal ..	Karavallikombai reserve ..	8,755	13·68	..	..	8,755	13·68		
	Námakal	Jambutu reserve	2,617	4·09	..	..	2,617	4·09		
		Puliyan shola reserve ..	5,530	8·64	..	..	5,530	8·64		
	Atúr	Varagúr	2,675	4·18	..	..	2,675	4·18		
		Náyakankombai	2,880	4·50	..	..	2,880	4·50		
		Belur reserve	6,880	10·75	..	..	6,880	10·75		
		Nágúr do.	3,757	5·87	..	..	3,757	5·87		
		Pattimedu reserve	3,046	4·76	..	..	3,046	4·76		
		Nagalur do.	6,138	9·59	..	..	6,138	9·59		
		Jumbál do.	3,680	5·75	..	..	3,680	5·75		
	Sálem	Pilapadi	4,992	7·80	..	..	4,992	7·80		
		Atúr ghât reserve	3,142	4·91	..	..	3,142	4 91		
		Mallapuram ghât reserve ..	2,285	3·57	..	..	2,285	3·57		
		Naitam chedu reserve ..	2,400	3·75	..	..	2,400	3·75		
		Vaniyár do. ..	4,512	7·05	..	..	4,512	7 05		
		Kuttár do. ..	3,795	5·93	..	..	3,795	5·93		
		Manjavadi do. ..	8,461	13·22	..	..	8,461	13·22		
		Kunimadavu do. ..	4,307	6·73	..	..	4,307	6·73		
	Uttankarai	Pallipatti do. ..	8,000	12·50	..	..	8,000	12·50		
		Tumbakal do. ..	7,757	12·12	..	..	7,757	12·12		
		Nochikatti do. ..	7,917	12·37	..	..	7,917	12·37		
		Kalnad do. ..	4,320	6·75	..	..	4,320	6·75		
		Chittari do. ..	3,917	6 12	..	..	3,917	6·12		
		Karungal do. ..	4,320	6·75	..	..	4,320	6·75		

Area of Reserved Lands, Forests, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square miles.	Acres.	Acres.	Acres.	Equivalent in Square miles.		
Salem—*contd.*	Uttankarai—*continued* ..	Chittilingi reserve ..	6,880	10·75	..	..	6,880	10·75		
		Kottapatti do. ..	8,960	14·00	..	..	8,960	14·00		
	Tirupatúr	Mangalam do. ..	6,080	9·50	..	..	6,080	9·50		
		Nágalutu do. ..	2,560	4·00	..	..	2,560	4·00		
	Tirupatúr and Uttankarai.	Singarapet do. ..	7,398	11·56	..	..	7,398	11·56		
	Tirupatúr	Mámbakam do. ..	9,370	14·64	..	..	9,370	14 64		
		Kottanur do. ..	7,257	11·34	..	..	7,257	11·34		
		Pungolom do. ..	7,834	12·24	..	..	7,834	12·24		
		Garuggamundi do. ..	5,760	9·00	..	* 4,480	1,280	2·00	No. 243, *Fort St. George Gazette*, dated 11th September 1885.	
		Madagatar do. ..	12,480	19·50	..	† 9,280	3,200	5·00		
	Hosúr	Aiyúr do. ..	5,952	9·30	..	..	5,952	9·30		
		Marandahalli do. ..	5,824	9·10	..	..	5,824	9·10		
		Gulhatti (new) do. ..	7,942	12·41	..	..	7,942	12·41		
		Toluvabetta do. ..	6,918	10·81	..	..	6,918	10·81		
		Manchi (new) do. ..	5,632	8·80	..	..	5,632	8·80		
		Anchetti do. ..	8,832	13·80	..	..	8,832	13·80		
		Natrapalaiyam do. ..	10,880	17 00	..	..	10,880	17·00		
		Biligundla do. ..	14,272	22·30	..	..	14,272	22·30		
	Hosúr and Dharmapuri ..	Woddapatti do. ..	17,152	26·80	..	..	17,152	26·80		
	Dharmapuri	Pennagaram do. ..	10,304	16·10	..	..	10,340	16·10		
	Dharmapuri and Hosúr ..	Gutirayan do. ..	15,776	24·65	..	..	15,776	24·65		
	Dharmapuri	Morappur do. ..	16,640	26·00	..	..	16,640	26·00		
	Hosúr	Kastur do. ..	11,616	18·15	..	..	11,616	18·15		
		Bilikal do. ..	11,136	17·40	..	..	11,136	17·40		
		Malahalli do. ..	8,928	13·95	..	..	8,928	13·95		
		Taggatti do. ..	10,432	16·30	..	..	10,432	16·30		
		Halibandai do. ..	7,360	11·50	..	..	7,360	11·50		
		Pani do. ..	5,856	9·15	..	..	5,856	9·15		
		Javalagiri do. ..	6,016	9·40	..	..	6,016	9·40		
		Talli do. ..	6,368	9·95	..	..	6,368	9·95		
		Kundrákotai do. ...	4,768	7·45	..	..	4,768	7·45		
		Sivanhalli do. ..	4,992	7·80	..	..	4,992	7·80		
		Náganur do. ..	3,200	5·00	..	..	3,200	5·00		
		Denkanikóta do. ..	2,816	4·40	..	..	2,816	4·40		
	Kishnagiri	Maharajagadai do. ..	10,304	16·10	..	..	10,304	16·10		
		Neralkota do. ..	7,040	11·00	..	..	7,040	11·00		
		Bargur (new) do. ..	1,920	3·00	..	..	1,920	3·00		
	Kishnagiri and Tirupatúr..	Kotur do. ..	3,840	6·00	..	..	3,840	6·00		

* Transferred to South Arcot. † Transferred to North Arcot.

Area of Reserved Lands, Forests, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square miles.	Acres.	Acres.	Acres.	Equivalent in Square miles.		
Salem—*contd.*	Tirupatúr	Mattakadapa reserve ..	2,048	3·20	..	..	2,048	3·20		
		Jalárpet do. ..	1,216	1·90	..	..	1,216	1·90		
		Narasingapuram do. ..	2,048	3·20	..	..	2,048	3·20		
		Kalvapatti do. ..	2,016	3·15	..	..	2,016	3·15		
		Alangayam do. ..	11,520	18·00	..	..	11,520	18·00		
	Tirupatúr and Uttankarai..	Andiyappanur do. ..	4,704	7·35	..	..	4,704	7·35		
		Govindapuram do. ..	3,104	4·85	..	..	3,104	4·85		
	Uttankarai	Uttankarai (new) do. ..	3,200	5·00	..	..	3,200	5·00		
		Wumageri do. ..	2,944	4·60	..	..	2,944	4·60		
		Kallavi do. ..	4,160	6·50	..	..	4,160	6·50		
		Puvampatti do. ..	4,672	7·30	..	..	4,672	7·30		
		Poiyapatti do. ..	3,488	5·45	..	..	3,488	5·45		
		Morappúr do. ..	4,000	6·25	..	..	4,000	6·25		
		Harur (new) do. ..	1,901	2·97	..	..	1,901	2·97		
		Tirtamalai do. ..	11,046	17·26	..	..	11,046	17·26		
		Vaiyampatti do. ..	8,640	13·50	..	..	8,640	13·50		
		Kalladipatti do ..	2,912	4·55	..	..	2,912	4·55		
		Tenkaraikota do. ..	2,368	3·70	..	..	2,368	3·70		
		Kouramalai do. ..	8,512	13·30	..	..	8,512	13·30		
		Ammapalaiyam do. ..	9,216	14·40	..	..	9,216	14 40		
	Salem	Mallapuram ghât (extension)	640	1·00	..	..	640	1 00		
		Ajampatti reserve	1,920	3·00	..	..	1,920	3·00		
		Nartamchedu (extension) reserve.	1,088	1·70	..	..	1,088	1·70		
		Yerimalai reserve	3,520	5·50	..	..	3,520	5·50		
		Kanavoipudur reserve ..	3,200	5·00	..	..	3,200	5·00		
		Lokur do. ..	5,312	8·30	..	..	5,312	8·30		
		Pillapallikombai (new) reserve.	2,080	3·25	..	..	2,080	3·25		
		Atúr ghât (extension) reserve.	544	0·85	..	..	544	0·85		
		Kanjeri (new) reserve ..	4,032	6·30	..	..	4,032	6·30		
		Pannikaradu (new) reserve..	4,832	7·55	..	..	4,832	7·55		
		Mallapuram reserve ..	589	0·92	..	..	589	0·92		
	Uttankarai	Singarapet do. ..	2,624	4·10	..	..	2,624	4·10		
	Kishnagiri	Togarapalli do. ..	500	0·78	..	..	500	0·78		
	Salem	Karavattuparai do. ..	800	1·25	..	..	800	1·25		
	....	Karambapatti do. ..	..	..	10,000	..	10,000	15·63	....	Notified under section 4 in August 1885.
		Total ..	554,374	866·21	10,000	13,760	550,614	860·33		

Area of Reserved Lands, Forests, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square miles.	Acres.	Acres.	Acres.	Equivalent in Square miles.		
Trichinopoly.	Musiri talak	Sengattupatti	..	..	2,000	..	2,000	..	No. 189, *Fort St. George Gazette*, dated 5th February 1884.	
		Melur	..	..	2,000	..	2,000	..		
		Manalodai	..	..	3,000	..	3,000	..		
	Perambalúr taluk	Salamatti	..	..	5,000	..	5,000	..		
	Kulitalai do.	Viramalai hill	..	..	2,000	..	2,000	..	No. 269, *Fort St. George Gazette*, dated 25th September 1885.	Notified under section 4.
		Poiyapatti do.	..	..	720	..	720	..		
		No. I Shemmalai	..	..	500	..	500	..		
	Do. do.	No. II do.	..	..	500	..	500	..		
		Pakkirikaradu	..	..	300	..	300	..	No. 269, *Fort St. George Gazette*, dated 25th September 1885.	
		Puttantam Range comprising Kuramalai, Pulamalai and Nadumalai ..	..	..	500	..	500	..		
		Surpam range	..	..	700	..	700	..		
	Trichinopoly do. ..	Pettuvaitalai	..	..	137	..	137	..		
		Tuvagudi	..	..	1,438	..	1,438	..		Transferred from 59-B.
	Kulitalai do. ..	Maradur	..	..	180	..	180	..	No. 110, *Fort St. George Gazette*, dated 31st March 1886.	
		Mayanur	..	..	50	..	50	..		
		Total ..	..	..	19,025	..	19,025	29·73		
Tanjore ..	Northern Range, Tiruturaipúndi taluk.	Kodiyakadu (Point Calimere)	..	..	4,355	..	4,355	6 80	Board's Proes., No. 3052 / Forest 607, dated 6th November 1885.	Transferred from 59-B.
Coimbatore (North).	Erode taluk	Udayárpálaiyam	506	..	..	..	506	..		
		Pulankulam	296	..	..	..	296	..		
		Karumanjirai	98	..	..	..	98	..		
		Kunnatur	181	..	..	..	181	..		
		Vellaraivelli	57	..	..	..	57	..		
		Sinniyampalaiyam	327	..	..	..	327	..		
		Madatupalaiyam	131	..	..	..	131	..		
		Karukampalaiyam	249	..	..	..	249	..		
		Tingalur	336	..	..	..	336	..		
		Papampalaiyam	183	..	..	..	183	..		
		Palanayakampalaiyam ..	296	..	..	..	296	..		
		Nichampalaiyam	1,024	..	..	..	1,024	..		
		Pandiyanpalaiyam	644	..	..	..	644	..		
		Singanallur	594	..	..	..	594	..		
		Pettampalaiyam	291	..	..	..	291	..		
		Kanjikovil	1,344	..	..	..	1,344	..		
		Avalpunturai..	93	..	..	..	93	..		

Area of Reserved Lands, Forests, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square miles.	Acres.	Acres.	Acres.	Equivalent in Square miles.		
Coimbatore (North)—*cont.*	Erode taluk—*cont.*	Tuyampunturai	123	..	..	..	123	..		
		Tenmugamnellodu	47	..	..	..	47	..		
		Pungampádai	60	..	..	..	60	..		
		Ingur	461	..	..	..	461	..		
		Perundurai	620	..	..	..	620	..		
		Palakarai	48	..	..	..	48	..		
		Nallampatti	475	..	..	..	475	..		
		Sullipalaiyam	227	..	..	..	227	..		
		Ponmudi	131	..	..	..	131	..		
		Karandipalaiyam	134	..	..	..	134	..		
		Mettupudur	215	..	..	..	215	..		
		Chinnavirasangili	550	..	..	..	550	..		
		Periyavirasangili	357	..	..	..	357	..		
		Mungilpalaiyam	222	..	..	..	222	..		
		Kambaliyampalaiyam ..	98	..	..	..	98	..		
		Varapalaiyam	205	..	..	..	205	..		
		Kongampalaiyam	177	..	..	..	177	..		
		Nadupattai	214	..	..	..	214	..		
		Pudurpallapalaiyam ..	230	..	..	..	230	..		
		Sundakaipalaiyam	280	..	..	..	280	..		
		Chinnagavundanvalasa ..	79	..	..	..	79	..		
		Vittalampatti	365	..	..	..	365	..		
		Veliyampatti	136	..	..	..	136	..		
		Virumandapalaiyam ..	904	..	..	..	904	..		
		Muttampalaiyam	376	..	..	..	376	..		
		Sengapalli	535	..	..	..	535	..		
		Tenmagam Kangayampalaiyam.	117	..	..	..	117	..		
		Reddiyapalaiyam	107	..	..	..	107	..		
		Uttukuli	170	..	..	..	170	..		
		Vadugapalaiyam	45	..	..	..	45	..		
		Rakkiyapalaiyam	30	..	..	..	30	..		
		Kavandampalaiyam ..	95	..	..	..	95	..		
		Morattupalaiyam	272	..	..	..	272	..		
		Sirkar Periyapalaiyam ..	45	..	..	..	45	..		
		Sirkar Kattangani	174	..	..	..	174	..		
		Ichipalaiyam	199	..	..	..	199	..		
		Sirukalanji	491	..	..	..	491	..		
		Dalavaipalaiyam	710	..	..	..	710	..		
		Vayipadi	750	..	..	..	750	..		
		Kuttampalaiyam	63	..	..	..	63	..		

Area of Reserved Lands, Forests, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885. Acres.	Area on 1st April 1885. Equivalent in Square miles	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1886. Acres.	Area on 31st March 1886. Equivalent in Square miles.	Number and date of notification of addition or transfer	Remarks
Coimbatore (North)—*contd.*	Erode taluk—*continued* ..	Punjai Palátoluvu	763	..	..	..	763	..		
		Nanjai do.	37	..	..	..	37	..		
		Kodumanal	77	..	..	..	77	.		
		Orattapalaiyam	115	..	..	..	115	..		
		Pudupalaiyam	510	..	..	..	510	..		
		Ellaigrámam	255	..	..	..	255	..		
		Attavanaipidari	58	..	..	..	58	..		
		Mukasipidári	205	..	..	..	205	..		
		Srunamalai	2,147	..	..	..	2,147	..		
		Murungaitoluvu	80	..	..	..	80	..		
		Arachalúr	4,163	..	..	..	4,163	..		
		Kongadayampálaiyam ..	137	..	..	..	137	..		
		Kollankovil	725	..	..	..	725	..		
		Kontalam	208	..	..	..	208	..		
		Sivagiri	345	..	..	..	345	..		
		Villakatti	559	..	..	..	559	..		
		Kagam	161	..	..	..	161	..		
		Kolaivilaku	195	..	..	..	195	..		
	Karúr taluk	Karavalli	..	..	65	..	65	..	Board's Procs. No. 2203/Forest 420, dated 28th July 1885.	
		Munnúr	..	..	121	..	121	..		
		Kuppam	..	..	232	..	232	..		
		Punjaipugalúr	..	..	71	..	71	..		
		Nerúr	..	..	131	..	131	..		
		Pavitram	..	..	144	..	144	..		
		Punjaikalakurchi	..	..	81	..	81	..		
		Gúdalúr	..	..	96	..	96	..		
		Modukur	..	..	130	..	130	..		
		Inanganur	..	..	174	..	174	..		
		Séndamangalam	..	..	2,054	..	2,054	..		
		Kakkavadi Pichampatti ..	..	..	187	..	187	..		
		Talipatti	..	..	141	..	141	.		
		Eastern slopes of the Nílgiris	..	..	* 48,000	..	48,000	* 75	*Fort St. George Gazette* dated 15th July 1884.	Notified under section 4.
	Satyamangalam	Block No. I	..	..	..	..	..	..	Board's Procs., No 2535/Forest 80, dated 2nd September 1885.	
		" " II	..	..	* 224,000	..	224,400	* 350		
	Kollegál	" " I	..	..	* 2,49,600	..	2,49,600	* 390		
		" " II								
		" " III								
	Bhavání	" " I	..	..	1,40,800	..	1,40,800	* 220		
		Total ..	27,927	43·63	666,027	..	693,954	1084 ·30		

* Approximate.

Area of Reserved Lands, Forests, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square miles.	Acres.	Acres.	Acres.	Equivalent in Square miles.		
Coimbatore (South.)	Coimbatore taluk (Mettupálaiyam).	Gopanari forest or block V.								
		Kempapalaiyam								
		Tekampatti	38,200	..	..	38,200	..	..	..	Transferred to 59-A.
		Kondiyur or block VI ..								
		Nellitorai and Sundapatti or block VII.								
		Odantorai block VIII ..	5,880	..	..	5,880	..	..		
		Modur and Pettikottai block IX.	3,600	..	..	3,600	..	..		
	Palladam	Alatur	237	..	..	..	237	..		
		Ammapalaiyam	119	..	..	..	119	..		
		Arasur	94	..	..	..	94	..		
		Asanallipalaiyam	160	..	..	..	160	..		
		Avanashi	55	..	..	..	55	..		
		Ichipatti	639	..	..	..	639	..		
		Iduvai	125	..	..	..	125	..		
		Ittivirampalaiyam	581	..	..	..	581	..		
		Kadirampalaiyam	188	..	..	..	188	..		
		Kaduvettipalaiyam	80	..	..	..	80	..		
		Kalipalaiyam	123	..	..	..	123	..		
		Kandampalaiyam	92	..	..	..	92	..		
		Kaniyampundi	156	..	..	..	156	..		
		Kaniyur	820	..	..	..	820	..		
		Karadibari	50	..	..	..	50	..		
		Karaipudur	92	..	..	..	92	..		
		Karavalur	522	..	..	..	522	..		
		Korambapalaiyam	299	..	..	..	299	..		
		Korumatampatti	306	..	..	..	306	..		
		Kodangipalaiyam	121	..	..	..	121	..		
		Kuppandupalaiyam	69	..	..	..	69	..		
		Kuttagam	582	..	..	..	582	..		
		Mangarasuvalayapalaiyam ..	271	..	..	..	271	..		
		Moparipalaiyam	163	..	..	..	163	..		
		Naramapuram	556	..	..	..	556	..		
		Narayampalli	51	..	..	..	51	..		
		Nilambúr	113	..	..	..	113	..		
		Papankulam	103	..	..	..	103	..		
		Paruvai	76	..	..	..	76	..		
		Pattampalaiyam	126	..	..	..	126	..		
		Pammanallur..	159	..	..	..	159	..		
		Perungaravarpalaiyam ..	53	..	..	..	53	..		

Area of Reserved Lands, Forests, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885. Acres.	Area on 1st April 1885. Equivalent in Square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1886. Acres.	Area on 31st March 1886. Equivalent in Square miles.	Number and date of notification of addition or transfer	Remarks.
Coimbatore (South)—*contd.*	Palladam—*continued* ..	Pudupalaiyam	793	..	..	..	793	..		
		Pulippar	72	..	..	..	72	..		
		Puluvapatti	111	..	..	..	111	..		
		Pumalur	291	..	..	..	291	..		
		Rakkiyapalaiyam	278	..	..	..	278	..		
		Samalapuram	52	..	..	..	52	..		
		Settipalaiyam	159	..	..	..	159	..		
		Sennaripalaiyam	75	..	..	..	75	..		
		Sokkanur	132	..	..	..	132	..		
		Sukkampalaiyam	479	..	..	..	479	..		
		Tandagarampalaiyam ..	83	..	..	..	83	..		
		Tattanur	290	..	..	..	290	..		
		Tekkalur	389	..	..	..	389	..		
		Toravalur	82	..	..	..	82	..		
		Tulukamutur	60	..	..	..	60	..		
		Uppilipalaiyam	99	..	..	..	99	..		
		Vadugapalaiyam	57	..	..	..	57	..		
		Do.	293	..	..	..	293	..		
		Vallipuram	52	..	..	..	52	..		
		Valampalaiyam	81	..	..	..	81	..		
		Do.	75	..	..	..	75	..		
		Virapundi	175	..	..	..	175	..		
		Total ..	59,039	92·24	..	47,680	11,359	17·75		
Madura .	No. I. Periyakulam ..	Tamberán Kanál	250	0·39	..	* 250	..	..	....	Transferred to 59-A
		Melagudalur	1,280	2	..	* 1,280				
		Muchakal	2,560	4	..	* 2,560				
		Kutinachiyar..	640	1	..	..	640	1		
		Pandaratorai	300	·46	..	..	300	·46		
		High waving mountain slopes.	960	1 50	..	..	960	1·50		
		Kombai	6,400	10	..	..	6,400	10		
		Murugamalai (Fuel and Fodder reserves.)	3,226	5·04	..	..	3,226	5·04		
		No. I Vellaikaradu ..	..	..	965·24	..	965·24			
		„ VI Sonaikaradu ..	..	..	181·72	..	181·72			
		„ III Mottaikaradu ..	..	..	192·34	..	192·34	3·81	Notification in *Fort St. George Gazette*, dated 1st Aug. 1885.	Transferred from 59-D.
		„ IV Kuttaikaradu ..	..	..	125	..	125			
		„ V Nagarmalaikaradu.	..	..	118	..	118			

* Transferred to 59-A.

Area of Reserved Lands, Forests, 1885-86—*continued.*

District.	Range	Name of Forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square miles.	Acres.	Acres.	Acres.	Equivalent in Square miles.		
Madura—*contd.*	No. I Periyakulam—*continued.*	No. VI Perumalkovil karadu.	..	..	573	..	573	..	....	Transferred from 59-D.
		,, VII Sanniyasikovil karadu.	..	..	283·20	..	283·20	..		
	No. II. Kodaikánal ..	Parappar	42	·06	..	* 42	..	..		
		Velamkombai	1,600	2·50	..	* 1,600	..	..		
		Talaiar karadu	1,280	2	..	..	1,056	1·65		
		Varattarkánal			..	..				
		Iruttar kánal			..	..				
		Kadamaravu			..	..				
		Nochiyar kadu			..	..				
		Talaiar Andarkovil kadu ..			..	..				
		Petaren kánal			..	* 80				
		Ariyamutu kanal			..	* 64				
		Kumangovaimalai kadu ..			..	* 80				
		The southern slopes of the Palni hills.	25,600	40	..	..	25,600	40		
		The eastern slopes of the Palni hills.								
		The northern slopes of the Palni hills.								
		All the lands on the lower Palni hills lying outside the limits of certain cultural waste selected and set apart.	32,000	50	..	..	32,000	50		
		Manjakarai kadu	1,600	2·50	..	..	1,600	2·50		
		Vanjan kanál								
		Alayadi do.								
		Chekodi do.								
		Kadagatadi kadu								
		Koviladi kanál								
		Kumalara kadu								
		Talakodai do.								
		Tinikuttu do.								
		Ponvettu kanál								
		Periyasalai kadu								
		Poliyapattimalai								
		Elamalai								
		Nadumbarai kadu								

* Transferred to 59-A.

Area of Reserved Lands, Forests, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885. Acres.	Area on 1st April 1885. Equivalent in Square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1886. Acres.	Area on 31st March 1886. Equivalent in Square miles.	Number and date of notification of addition or transfer.	Remarks.
Madura.—*contd.*	No. II.—Kodaikánal—*continued.*	Waggatumalai (Fuel and Fodder reserves.)	4,200	6·56	..	..	4,200	6·56		
		Kachakatti (Fuel and Fodder reserves).	1,694	2·64	..	..	1,694	2·64		
		Tirupurankundram hill ..	960	1·50	..	..	960	1·50		
		Elephant rock	640	1·	..	..	640	1·		
		Ammanmalai..								
		Muttupattimalai	1,600	2·50	..	..	1,600	2·50		
		Vandiyur karadu								
		Nalladévanpatti karadu ..	..	..	1,920	..	1,920	3		
		Total ..	86,832	135 67	4358·50	5,956	85234·50	133·18		
		Ghát Forests.								
Tinnevelly	Nánguneri	Forest No. I	..	..	25,999	..	25,999	..		
	Ambásamudram	,, ,, II	..	..	61,856	..	61,856	..	....	Reserved under section 4.
	Tenkási	,, ,, III	..	..	14,032	..	14,032	..		Transferred from 59-D.
	Sankaranainárkoil ..	,, ,, IV	..	..	30,713	..	30,713	..		
	Srívilliputur	,, ,, V	..	..	40,006	..	40,006	..	....	Reserved under section 4.
	Ambásamudram	Mulimalai	..	..	457	..	457	..		
		Kalianiammankovilparai ..	..	..	309	..	309	..		
		Koviladiparai	..	..	125	..	125	..		
		Salupparpadai	..	..	71	..	71	..		
		Kolandamamalai	..	..	1,540	..	1,540	..		
	Tenkási	Okkanindranpadai	..	..	85	..	85	..		
		Kavalkuttiparamba	..	..	375	..	375	..		
		Kattamalai	..	..	860	..	860	..		
		Nalankurchi	..	..	212	..	212	..		
	Sankaranainárkoil ..	Chunnambuparamba ..	..	..	286	..	286	..		
		Saiyamalai	..	..	195	..	195	..		
		Vedamalai	..	..	99	..	99	..		
	Srívilliputur	Kottankulam..	..	..	1,200	570	630	..		
		Sappaniparamba	..	..	376	..	376	..		
		Pulpadaiparamba	..	..	51	..	51	..	....	Notified under section 26.
		Valaikulamparamba.. ..	..	..	1,120	..	1,120	..		Transferred from 59-D.
		Onnipattimalai	..	..	530	..	530	..		
		Martandramparai	.	..	135	..	135	..		
	Tinnevelly	Sivalaparaiparamba	..	..	263	..	263	..		
		Talaiyuttu	..	..	891	..	891	..		
	Tenkási	Kudiraimalai..	..	..	13418·41	..	13418·41	..		
		Kottamadaki kadu	..	..	1279·23	..	1279·23	..		
		Kongrayakurchi	..	..	78	·36	77·64	..		
		Panamparai	..	..	117	..	117	..		
		Kaliyarkadu	..	..	187	28 93	158·07	..		
		Vallanad hills	..	..	4,667	..	4,667	..		
	Otapidáram	Milavittan	...	..	674	..	674	..		
		Vaipar reserve	..	..	813	..	813	..		
		Virusampatti..	..	..	294	..	294	..		
		Total ..	..	..	203313·64	599·29	202714·35	316·74		

Area of Reserved Lands, Forests, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885. Acres.	Area on 1st April 1885. Equivalent in Square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1886. Acres.	Area on 31st March 1886. Equivalent in Square miles.	Number and date of notification of addition or transfer.	Remarks.
Malabar (Wynaad and Pálghat).	Wynaad	Palapattur	861	..	..	..	861	..	....	Excluded portions of the Chedlet teak forest at the Forest Settlement of 1884-85.
		Vengur	2,013	..	..	..	2,013	..	....	The Chedlet forest was declared as reserved land in 1884-85—*vide* District Gazette, dated 5th July 1884.
		Chedlet	572	..	..	..	572	..		
		Karapur	1,221	..	..	..	1,221	..		
		Kallur..	3,757	..	..	..	3,757	..		
		Excluded portions of Trans-Beni forest at the Forest Settlement of 1884-85.	4,300	..	..	..	4,300	..	....	The Trans'-Beni forest and Chattamkulamgara Paramba were also declared as reserved land in 1884-85—*vide* District Gazette, dated 5th July 1884.
	Pálghat	Chattamkulamgara paramba.	30	..	..	..	30	..		
	Wynaad	Kudrakot	..	..	26,134	..	26,134	..	....	Notified under section 4 in October 1884.
		Padri	..	..	22,400	..	22,400	..		
		Cardamom forest	..	..	13,440	..	* 13,440	..		
		Kanot	..	..	25,600	..	25,600	..	....	Notified under section 4 in May 1885.
	Pálghat	Chenatnair forest	..	..	16,369	..	16,369	..	....	Notified under section 4 in November 1883.
		Tiruvazham kunnu *alias* Panakadam.	..	..	1,000	..	1,000	..	....	Transferred from 59-B.
		Pallam	..	..	100	..	100	..	....	Transferred from 59-B.
		Total ..	12,754	19·92	105,043	..	117,794	184·06		
Malabar (Nilambúr).	....	....	..	..	..	..	..	..		
South Canara.	....	Ullal plantation. Casuarina ..	..	..	16·50	..	16·50	·08	....	Notified under section 4 in December 1885.
		Ullal plantation. Honne ..	..	..	39	..	39			
	Uppinangadi	I. The Siradi-sisla reserve..	..	..	19,200	..	19,200	30		
		II. The Dharmastla-Mundaji reserve.	..	..	9,600	..	9,600	15	G.O., No. 118, dated 13th Feb. 1886.	Notified under section 4 in February 1886.
		III. The Charmadi-Kanapadi reserve.	..	..	12,800	..	12,800	20	....	
		IV. The Bhagimale reserve.	..	..	6,400	..	6,400	10	....	
		Total ..	..	..	48055·50	..	48055·50	75·08		
		Grand Total ..	826,252	1291·01	1,561,326	85,700	2,241,878	3502·93		

* Apparently includes Chapparam (112 acres) and Panniyatta (70 acres).

Annual Form No. 59 D.

Forest Department, Madras, Southern Circle.

Area of other Forests, 1885-86.

District.	Range.	Name of Forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of Notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square Miles.	Acres.	Acres.	Acres.	Equivalent in Square Miles.		
Chingleput.	....	Vandalúr	3,207	5·01	..	3,207	..	..	..	....
North Arcot.	....	....	..	..	..	..	..	..	..	....
South Arcot.	Tiruvannámalai Taluk.	Ténmalai	16,960	..	..	..	16,960	..	..	....
		Perungolatúr Swámi Malai.	6,080	..	..	6,080	..	..	..	Transferred to 59-C.
		Tandrampet	20	..	..	..	20	..	..	....
		Kadambai	280	..	..	..	280	..	..	....
		Tippakádu	400	..	..	400	..	..	..	Transferred to 59-C
		Kavatimalai	6,400	..	..	6,400	..	..	..	
		Kannamadi	25,600	..	..	..	25,600	..	..	....
		Anandavadi	6,400	..	..	6,400	..	..	..	Transferred to 59-C.
		Nattampatti	2,560	..	..	..	2,560	..	..	
		Valasamalai	7,040	..	..	7,040	..	..	..	Transferred to 59-C.
		Ravandavadi	12,800	..	..	..	12,800	..	..	
		Porasapet	15,360	..	..	..	15,360	..	..	
		Sirupákam	11,520	..	..	..	11,520	..	..	
		Erayúrmalai	5,120	..	..	..	5,120	..	..	
		Nakambadimarkulum.	32,000	..	..	..	32,000	..	..	
		Rásimalai	19,200	..	..	..	19,200	..	..	
		Veppúr	25,600	..	..	..	25,600	..	..	
		Bimárapatti Attipádi.	19,200	..	..	..	19,200	..	..	
		Kaludaikattimalai ..	7,040	..	..	..	7,040	..	..	
		Sannamalai	10,880	..	..	..	10,880	..	..	
		Trichampet including Attipákam	29,080	..	..	..	29,080	..	..	
		Kolamanjanúrkulam.	3,200	..	..	..	3,200	..	..	
		Pudupálaiyam ..	6,400	..	..	..	6,400	..	..	
		Tiruvannámalai timber yard.	4	..	..	..	4	..	..	
		Javádi slopes from Bandirivu to Madigari in Salem district.	25,600	..	..	..	25,600	..	..	
		Damarakádu in North Arcot district.	7,880	..	..	..	7,880	..	..	
	Tindivanam Taluk.	Vailamúr Timmipendrug.	10,240	..	..	..	10,240	..	..	
		Kotenmalai near Padipallam block.	392	..	..	..	392	..	..	
		Vellimódu	2,560	..	..	..	2,560	..	..	
		Mínamúrmalai ..	3,840	..	..	..	3,840	..	..	
		Voleti	1,280	..	..	..	1,280	..	..	
		Pattuvoy	1,280	..	..	..	1,280	..	..	
		Kilsévúr	1,280	..	..	..	1,280	..	..	
		Nadukuppam to Bramhadésam.	3,840	..	..	..	3,840	..	..	
		Parikalpet	70	..	..	..	70	..	..	
	Villupuram Taluk.	Odaijanattam and Kadayam.	6,400	..	..	..	6,400	..	..	
		Pulanjaimalai ..	450	..	..	..	450	..	..	
		Ariyalúr Forest ..	500	..	..	..	500	..	..	
		Pallipudupet	180	..	..	..	180	..	..	
		Punamadévi	50	..	..	..	50	..	..	
		Púntóttam	50	..	..	..	50	..	..	
		Sáttipattu	50	..	..	..	50	..	..	
		Periyapuram	50	..	..	..	50	..	..	
	Cuddalore Taluk.	Rámápuram and Valicheripálaiyam.	9	..	..	..	9	..	..	
		Selambanádanpetten.	640	..	..	..	640	..	..	
		Badrakóttai	1,281	..	..	..	1,281	..	..	
		Velánguppam ..	2,560	..	..	..	2,560	..	..	
		Kanjiruppu	1,000	..	..	..	1,000	..	..	
		Karunguli	600	..	..	..	600	..	..	
		Vengádampéttai, 15th milestone.	250	..	..	..	250	..	..	

Area of other Forests, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885. Acres.	Area on 1st April 1885. Equivalent in Square Miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1886. Acres.	Area on 31st March 1886. Equivalent in Square Miles.	Number and date of Notification of addition or transfer.	Remarks.
South Arcot—*cont.*	Chidambaram Taluk.	Pinnalúr, Wálajápet tank block.	1,600	..	..	..	1,600	..	..	
	Vriddháchalam Taluk.	Kammápuram ..	1,400	..	..	..	1,400	..	..	
		Kodanúr, South of 45th milestone.	1,000	..	..	..	1,000	..	..	
		Wuyakondrávi and Kóttayam.	2,000	..	..	..	2,000	..	..	
		Block near 25th milestone.	150	..	..	..	150	..	..	
		Púdúr	1,920	..	..	..	1,920	..	..	
		Kolatúr	1,280	..	..	..	1,280	..	..	
		Periyanásalúr ..	1,280	..	..	..	1,280	..	..	
		Virinjipuram and Kandachipuram.	2,560	..	..	..	2,560	..	..	
		Kottadi	640	..	..	..	640	..	..	
		Tirumachúr to Gadilam river.	4,920	..	..	..	4,920	..	..	
	Tirukoilúr Taluk.	Chikkadu	4,920	..	..	..	4,920	..	..	
		Panjúr	50	..	..	..	50	..	..	
		Kolatúr	70	..	..	..	70	..	..	
		Mámbákam	40	..	..	..	40	..	..	
		Seizampet	50	..	..	..	50	..	..	
		Muttalúr	50	..	..	..	50	..	..	
		Kodiyúr	50	..	..	..	50	..	..	
	Kallakurchi Taluk.	Ponparappi forest ..	9,600	..	..	..	9,600	..	..	
		Kadambúr	3,100	..	..	..	3,100	..	..	
		Lálápet forest including chittal.	14,500	..	..	..	14,500	..	..	
		Tugarai Kachirájapálaiyam.	1,500	..	..	..	1,500	..	..	
		Parigam	2,000	..	..	..	2,000	..	..	
		Kanai	3,000	..	..	..	3,000	..	..	
		Poigunnammalai ..	1,000	..	..	..	1,000	..	..	
		Palavalam	2,000	..	..	..	2,000	..	..	
		Rangappanúr.. ..	1,000	..	..	..	1,000	..	..	
		Total ..	403,156	629·93	..	26,320	376,836	588·81		
Salem ..	....	....	..	..	..	..	..	..		
Trichinopoly.	....	....	..	..	..	..	..	..		
Tanjore	Southern Range.	Talanair	1,200	..	..	..	1,200	..	..	
		Kariyapatnam ..	188	..	..	..	188	..	..	
		Manakádu	170	..	..	..	170	..	..	
		Valligadangu ..	40	..	..	..	40	..	..	
		Vanduvánchéri ..	150	..	..	..	150	..	..	
		Mudupet	300	..	..	..	300	..	..	
		Kovilpattu	137	..	..	..	137	..	..	
		Vanavanmahádévi ..	380	..	..	..	380	..	..	
		Vallupallam							..	
		Pushpavanam ..	500	..	..	..	500	..	..	
		Periyakudagai ..	366	..	..	..	366	..	..	
		Total ..	3,431	5·36	..	..	3,431	5·36		
Coimbatore (North).	....	....	..	..	..	..	..	..		
Coimbatore (South)	....	....	..	..	..	..	..	..		
Madura.	No. I or Periyakulam Range.	Detached hills and Karadus in the Cumbum valley.	3,225	5·03	..	2,438·50	786·50	1·22	..	Transferred to 59-C.
		Government portion of the Agamalais.	9,280	14·50	..	..	9,280	14·50	..	
		Andipati hills ..	12,800	20	..	..	12,800	20	..	
	No. II or Kodaikánal Range.	Upper Palni plateau..	32,000	50	..	..	32,000	50	..	

Area of other Forests, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of Notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square Miles.	Acres.	Acres.	Acres.	Equivalent in Square Miles.		
Madura—*cont.*	No. III or Dindigul Range.	Portion of the slopes of the Sirumalais.	640	1	..	..	640	1	..	
		Detached hills near Aiyalúr.	12,800	20	..	..	12,800	20	..	
		Detached hills near Kanavoipatti.	3,840	6	..	..	3,840	6	..	
	No. IV or Mélúr Range.	Karundamalais ..	2,6240	41	..	..	26,240	41	..	
		Nedumalais	3,840	6	..	..	3,840	6	..	
		Some of the detached hills near Nattam ..	2,560	4	..	..	2,560	4	..	
	No. V or Madura Range.	Perumalai	5,120	8	..	..	5,120	8	..	
		A portion of Munjamalais.	4,800	7·50	..	..	4,800	7·50	..	
		Total ..	117,145	183·03	..	2,438·50	114,707	179·22		
Tinnevelly.	Tenkarai ..	Paramankurchi ..	1,133	1·77	..	..	1,133	1·77	..	
		Arasúr	6,831	10·67	..	..	6,831	10·67	..	
		Kottam	2,860	4·46	..	..	2,860	4·46	..	
	Northern Range.	Tenkási Forest No. III	14,032	..	..	14,032	..	..	..	Transferred to 59-C.
		Sankaranainárkoil Forest No. IV.	30,713	..	..	30,713	..	..		
		Srívilliputur, Forest No. V.	40,006	..	..	40,006	..	..		
	Southern Range.	Nángunéri, Forest No. I.	25,715	..	..	25,715	..	..	..	
		Ambásamudram, Forest No. II.	61,856	..	..	61,856	..	..	..	
	Ambásamudram.	Kolandamámalai ..	1,120	..	..	1,120	..	..	..	
		Mulimalai	457	..	..	457	..	..	..	
		Káliyammankovilpárai	309	..	..	309	..	..	..	
		Koviladipárai ..	125	..	..	125	..	..	..	
		Saluppárpadai ..	71	..	..	71	..	..	..	
		Okaninranpádai ..	85	..	..	85	..	..	..	
	Tenkási ..	Kávalkuttiparamba ..	375	..	..	375	..	..	..	
		Kottamalai	860	..	..	860	..	..	..	
		Nalankurchi	212	..	..	212	..	..	..	
	Sankaranainárkoil.	Chunnámbuparamba.	286	..	..	286	..	..	..	
		Saivamalai	195	..	..	195	..	..	..	
		Védamalai	99	..	..	99	..	..	..	
	Srívilliputur.	Kottankulam	1,200	..	..	1,200	..	..	..	
		Sappaniparamba ..	376	..	..	376	..	..	..	
		Pulpádaiparamba ..	50	..	..	50	..	..	..	
		Valaikulamparamba..	1,120	..	..	1,120	..	..	..	
		Onnipattimalai ..	530	..	..	530	..	..	..	
		Martandrampárai ..	135	..	..	135	..	..	..	
	Tinnevelly..	Sivalaperi	263	..	..	263	..	..	..	
		Talaiyuttu	891	..	..	891	..	..	..	
	Tenkarai ..	Kudiraimalai.. ..	12,848	..	..	12,848	..	..	..	
		Kottamadakikádu ..	1,279	..	..	1,279	..	..	..	
		Kongráyakurchi ..	78	..	..	78	..	..	..	
		Panampárai	117	..	..	117	..	..	..	
		Kaliyarkádu	187	..	..	187	..	..	..	
	Otapidáram.	Vallanád hills ..	4,483	..	..	4,483	..	..	..	
		Milavittam	674	..	..	674	..	..	..	
		Vaippár reserve ..	813	..	..	813	..	..	..	
		Virusampatti.. ..	294	..	..	294	..	..	..	
		Total ..	212,678	332·30	..	201,854	10,824	16·91		
Malabar (Wynaad and Pálghat).	Wynaad ..	Manatána	..	..	214,400	..	214,400	..	..	
	Pálghat ..	Forestland near Dóni.	..	..	150	..	150	..	..	
		Total ..	..	..	214,550	..	214,550	335·23		
Malabar (Nilambúr).	....	....	..	..	..	..	..	..	..	
South Canara.	.. ..	Tannír Bhávi ..	..	..	21	..	21	0·03	..	
		Parapár	..	..	109	..	109	0·17	..	
		Total ..	..	..	130	..	130	0·20		
		Grand Total ..	739,617	1,155·65	214,680	233,819	720,478	1,125·75		

Annual Form No. 60.

Forest Department, Madras, Southern Circle.

Area of Plantations, 1885-86.

District.	Range.	Name of Plantation.	On 1st April 1885.		Added or excluded during 1885-86.		On 31st March 1886.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
		Regular Plantations.							
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Chingleput ..	Chingleput ..	Maiyúr, Pilapúr and Mámandúr	400	19,781	..	703	400	20,484	
		Nazarethpet	71·54	1,592	..	75	71·54	1,667	
		Wálajábád	14·55	1,457	..	246	14·55	1,703	
		Vembákam	8				8		
		Hanumantaputéri	12	3,605	..	344	12	3,950	
		Melamaiyúr	24				24		
		Kattivák	14·43	234	—14·43	—234	..	..	Abandoned.
		Covelong	2	249	..	25	2	274	
		Total ..	546·52	26,919	—14 43	1,393 —234	532·09	28,078	
North Arcot ..	Vellore.. ..	Vellore taluk—							
		Ambúr	5	394	..	121	5	515	
		Pólúr taluk—							
		Ammerdi	25	4,210	..	101	25	4,311	
		Chandragiri taluk—							
		Gázulamandiyam	250	3,225	..	104	250	3,329	
	Palmanér ..	Palmanér taluk—							
		Palmanér	2	1,338	..	49	2	1,387	
		Nágamangalam..	31	2,518	..	48	31	2,566	
		Pidugurváripalle	20	2,981	..	48	20	3,029	
		Venkatagirikóta	4	2,238	..	48	4	2,286	
		Baireddipalle	4	5,692	..	96	4	5,788	
		Gudiyátam taluk—							
		Tiruvallam	435	28,359	..	2,283	435	30,642	
		Virinjipuram	260	19,609	..	1,112	260	20,721	
		Chainúr	129	5,743	..	135	129	5,878	
		Ammundi	160	4,246	..	731	160	4,977	
		Tándráyangunta	2	639	.	..	2	639	
	Head Quarter Range.	Vannivédu	30	2,006	..	97	30	2,103	
		Wálajápet taluk—							
		Arkónam Sub-Magistrate's compound	5	130	..	..	5	130	
		Arkónam plantation	37	5,065	..	50	37	5,115	
		Hd. Asst. Collector's office compound.	4	151	..	..	4	151	
		Tengal	..	..	250	84	250	84	
		Arcot taluk—							
		Kilminnal	150	8,823	..	1,707	150	10,530	
		Total ..	1,553	97,367	250	6,814	1,803	1,04,181	

Area of Plantations, 1885-86—*continued.*

District.	Range.	Name of Plantation.	On 1st April 1885.		Added or excluded during 1885-86.		On 31st March 1886.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			ACS.	RS.	ACS.	RS	ACS.	RS.	
South Arcot ..	No. I, Tiruvannámalai.	Chengam	8	1,257	..	...	.8	1,257	
	No III, Tindivanam.	Agaram	102	7,218	..	679	102	7,897	
		Achikádú	107	2,112	..	64	107	2,176	
	No. IV, Cuddalore.	Tanlankádu	150	7,987	..	1,225	150	9,212	
		Fort St. David	37	4,011	..	546	37	4,557	
		Shónangkuppam	120	8,505	..	885	120	9,390	
		Dónitorai and other salt topes around ..	88	1,933	..	774	88	2,707	
		Nochikádu	314	8,277	22·96	980	336·96	9,257	
		Periyakuppam	256	3,592	78 52	1,736	334·52	5,329	
		Add amount of land rent paid for the above plantation to the Municipality.	..	489	..	..	..	489	
	Chidambaram.	Killai plantation	60	1,658	11	634	71	2,292	
		Coleroon mouth plantation	48	1.337	1·14	171	49 14	1,508	
		Periyapet plantation	35	58	40 46	205	75 46	263	
		Mallatár bed plantation	27	30,061	..	40	27	30,101	
		Vélúr	..	2,563	..	..	..	2,563	
		Add pay of the manager and his gumastah in charge of Tirukoilúr plantation.	..	916	..	..	..	916	
		Total ..	1,352	81,975	154·08	7,939	1,506 08	89,914	
Salem	....	....	..	..	..	..	..	..	
Trichinopoly ..	Kulitalai ..	Elamanúr	117·1	11,995	..	295	117 1	12,290	
		Pettavaitalai	137	12	..	137	137	149	
		Kulitalai	77 18	9,851	..	336	77 18	10,187	
		Manatattai	44·86	4,021	..	165	44·86	4,186	
		Lálápet	213	5,779	..	216	213	5,995	
		Ambásamudram	319	409	..	55	319	464	
		Mahádánapuram	191	263	..	33	191	296	
		Sittalavoi	160·32	7,299	..	173	160·32	7,472	
		Sekkánam	122	2,964	..	44	122	3,008	
		Kattalai	74·35	7,368	..	340	74·35	7,708	
		Pudúr	141·3	706	..	55	141·3	761	
		Máyanúr	..	..	50	43	50	43	
		Punjanúr	480	486	..	47	480	533	
	Udayárpálaiyam.	Kólamánikam	242	5,790	..	286	242	6,076	
		Aramanaikurchi	91	2,415	..	37	91	2,452	
		Káraipákam	107	2,587	..	104	107	2,691	
		Tiruvenjanúr	185	2,181	..	73	185	2,254	
		Varappakurchi	192	1,696	..	108	192	1,804	

Area of Plantations, 1885-86—*continued.*

District.	Range.	Name of Plantation.	On 1st April 1885.		Added or excluded during 1885-86.		On 31st March 1886.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Trichinopoly—*continued.*	Udáyarpálaiyam—*continued.*	Sattambádi	105	2,323	..	..	105	2,323	
		Sripurandan	486	3,485	..	141	486	2,626	
		Valakurchi	130	376	..	75	130	451	
		Annagarampet	92	1,202	..	196	92	1,398	
		Total ..	3,707·11	73,208	50	2,959	3,757·11	76,167	
Tanjore ..	....	Tranquebar, No. I	52	5,444	..	16	52	..	
		Do. „ II	92		..	404	92	..	
		Vettangudi	453		..	2,194	453	..	
		Neidavásal	51		..	47	51	..	
		Kodiyampálaiyam	60		..	52	60	..	
		Kodambádi	26		..	4	26	..	
		Total ..	734	5,444	..	2,717	734	8,161	
Coimbatore (North).	Satyamangalam	Talamalai	80	18,563	— 80	— 18,563	..	..	Abandoned.
	Kollegál ..	Bailúr..	97	29,447	..	631	97	30,078	Sandalwood plantation.
		Total ..	177	48,010	— 80	631 — 18,563	97	30,078	
Coimbatore (South).	Túnakadava ..	No I Plantation	8·5	4,402	..	..	8·5	4,402	These are plantations in No. I reserve on the Anaimalais.
		„ II do.	8				8		
		„ III do.	3				3		
		Total ..	19·5	4,402	..	..	19 5	4,402	
Madura ..	....	Vannátipárai teak plantation	4	1,385	..	6	4	1,391	
		Kodaikánal Eucalyptus plantation ..	8	3,272	..	32	8	3,342	
		Do. Acacia plantation	5·50		..	38	5·50		
		Kodaikánal Parappár plantation	8	327	3·50	168	11·50	495	
		Velámkombai teak plantation	4·14	976	..	..	4·14	976	
		Púmbárai plantation	3	512	..	..	3	512	
		Kodaikánal scattered plantation	3	984	..	34	3	1,018	
		Total ..	35·64	7,456	3·50	278	39·14	7,734	
Tinnevelly ..	Tenkarai ..	Kudiraimalai..	537	738	— 537	— 738	..	..	Transferred to "cultural operations."
Malabar (Wynaad and Pálghat).	Wynaad Southern Division.	Kanót teak plantation	41·50	2,620	..	314	41·50	2,934	

Area of Plantations, 1885-86—*continued.*

District.	Range.	Name of Plantation.	On 1st April 1885. Area.	On 1st April 1885. Cost.	Added or excluded during 1885-86. Area.	Added or excluded during 1885-86. Cost.	On 31st March 1886. Total area.	On 31st March 1886. Total cost.	Remarks.
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Malabar (Nilambúr).	Nilambúr ..	Amarampálaiyam	408·77	..	..	..	408·77	..	Reserved under Act V of 1882
		Chatamborai	498·10	..	..	..	498·10	..	
		Nellikutta	120·23	..	..	..	120·23	..	
		Iravallikáva	131·56	..	+ 3·30	..	134·86	..	
		Aruvakád	113·63	..	— 2·19	..	111 44	..	
		Edakád	693·59	..	— 1·07	..	692·52	..	
		Ellenjóri	337·81	..	— 0·05	..	337·76	..	
		Rómalúr	21·33	..	..	..	21·33	..	
		Múlatmanna	70·76	..	+ 0·80	..	71·56	..	
		Panangóte	393·78	..	+ *100·00 + 3·31	..	497·09	..	* New clearing for planting transferred from forest.
		Valuvasheri	584·	..	..	..	584·	..	
		Mangalasheri	10·74	..	..	..	10·74	..	
		Ambalakandi	1·04	..	— 0·03	..	1·01	..	
		Chittarikál	9·55	..	— 9·55	..	..	..	Both together only 8·35. This is wrongly entered a second time by Mr. Ferguson, late Deputy Conservator, and will be omitted in the next annual return.
		Puttalat	8·35	..	..	..	8·35	..	
		Porai Mangalasheri	10·74	..	— 10·74	..	..	..	
		Arimbrakuttamala	22·	..	— 0·25	..	21·75	..	
		Total ..	3,435·98	6,58,616	107·41 — 23 88	4,820† — 4,50,711	3,519·51	2,12,725	† As per verified actuals.
South Canara..	Mangalore ..	Ullál casúarina	14½	421	2	234	16½	655	
		Tannirbhávi	21	1,149	..	307	21	1,456	
		Ullál Honné	39	479	..	37	39	516	
	Kásaragód ..	Parapa teak	109	16,460	..	76	109	16,536	
		Total ..	183½	18,509	2	654	185½	19,163	
		Grand Total ..	12,322·30	10,25,264	566·99 — 655·31	28,519 — 4,70,246	12,233·98	5,83,537	
			Cultural Operations.						
Chingleput ..	..	....	..	..	..	..	..	..	
North Arcot ..	..	....	..	..	..	..	..	..	

Area of Plantations, 1885-86—*continued.*

District.	Range.	Name of Plantation.	On 1st April 1885.		Added or excluded during 1885-86.		On 31st March 1886.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			ACS.	RS.	RS.	ACS.	ACS.	RS.	
South Arcot ..	..	Rámápuram forest	70	..	— 70	..	..	..	Omitted Adjusted under VIII (*f*).
		Forests in Tindivanam, Cuddalore and Villupuram.	555	32	— 555	..	..	32	
		Forests in Cuddalore, Vriddháchalam and Chidambaram.	530	197	— 530	..	..	197	
		Total ..	1,155	229	— 1,155	..	..	229	
Salem	..	....	..	..	..	..	..	..	
Trichinopoly ..	Trichinopoly	Melúr	M. 6	54	..	..	M. 6	54	
		Peruvalai bank	2	133	..	..	,, 2	133	
		Coleroon left bank trunk road to Alambádi.	,, 22	3,591	..	623	,, 22	4,214	
	Udayárpálaiyam.	Nandiyár project	,, 4	2,261	..	6	,, 4	2,267	
		Coleroon left bank Sembiyagudi to Vaippár	,, 21	7,547	..	..	,, 21	7,547	
		Pennéri main channel	,, 19	7,094	..	..	,, 19	7,094	
		Do. branch channel	,, 16	2,199	..	..	,, 16	2,199	
		Lower anicut line	,, 10	3,457	..	..	,, 10	3,457	
		Vadár Padugais	..	3	..	..	..	3	
		Total ..	M. 100	26,339	..	629	M. 100	26,968	
Tanjore ..	..	Nadár	18	..	..	..	18	..	
		Ichankottai	9	..	..	9	9	9	
		Kollanagarai	20	..	..	..	20	..	
		Karungulam Mélpadi	5	..	..	..	5	..	
		Marungulam	20	..	..	..	20	..	
		Nadukavéri	9	..	..	..	9	..	
		Natarájpuram							
		Káttuchéri	15	..	..	48	15	48	
		Kalliyappanallúr	18	..	..	48	18	48	
		Nadakondanallúr	25	..	..	48	25	48	
		Vettangudi	520	..	..	44	520	44	
		Nannilam	2	..	..	..	2	..	
		Odiyandevi	20	..	..	..	20	..	
		Védáraniyam (date garden)	1	..	20	42	21	42	
		Edangankóttai (Melúr)	7	..	..	..	7	..	
		Thirteen topes in Pudukóta taluk ..	135	..	..	..	135	..	
		Total ..	824	286	20	239	844	286 + 239 = 525	

Area of Plantations, 1885-86—*continued.*

District	Range.	Name of Plantation.	On 1st April 1885.		Added or excluded during 1885-86.		On 31st March 1886.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS	
Coimbatore (North).	..	....	..	..	..	..	..	..	
Coimbatore (South).	..	....	..	..	..	..	..	..	
Madura ..	..	....	..	..	..	..	..	..	
Tinnevelly ..	Tenkarai ..	Kudiraimalai	..	..	537	..	537	..	
Malabar (Wynaad and Pálghat).	..	....	..	..	..	..	..	..	
Malabar (Nilambúr).	..	....	..	..	..	..	..	..	
South Canara ..	..	....	..	..	..	..	..	..	
		Grand Total ..	1,979 M. 100	26,854	−1,155 557	−229 868	1,381 M. 100	27,493	

Annual Form No 61.

Forest Department, Madras, Southern Circle.

Annual list of topes.

District.	Range.	Number of topes.	Name of tope.	Chief trees.	Area.	Cost. During year.	Cost. To end of year.	Remarks.
					ACRES.	RS.	RS.	
Chingleput ..	Chingleput range	7	..	Casuarina, mango, margosa, iluppai and korkápuli	79·37	242	7,278	
North Arcot ..	Vellore	60	..	Palmyra, tamarind, mango	..	..	..	
	Palmanér	169	..	Palmyra, iluppai, tamarind, mango, cocoanut and date	..	..	..	
	Head-quarter range	127	..	Palmyra, date, mango, tamarind, iluppai ..	..	..	..	
	Arcot taluk	261	..	Palmyra, mango, iluppai, tamarind	..	..	..	
	Wandiwash taluk	12	..	Various kinds	..	..	..	
	Chittoor	28	..	Date, tamarind, mango, palmyra	..	..	..	
	Chandragiri	6	..	Mango, casuarina, palmyra	..	..	..	
				Total ..	.	852	852	
				Add miscellaneous expenditure adjusted under VIII *d*.	.	23	23	
		663			..	875	875	
South Arcot ..	No. I Range, Tiruvannámalai	34	..	Tamarind, iluppai, nágai, vémbu, mango and katuválai	118·25	..	..	
	,, II ,, Tindivanam ..	7	..	Do. do. do. ..	34·73	..	..	
	,, III ,, Villupuram ..	14	..	Tamarind, iluppai, káttuvágai, vémbu, mango, sandal and casuarina	77·00	..	..	
	,, IV ,, Cuddalore ..	2	..	Tamarind, iluppai, karivélam, mango and nagal	12·00	..	..	
	,, IV ,, Chidambram ..	4	..	Karivélam, portia, tamarind, palmyra and iluppai	16·51	..	..	
	,, V ,, Tiruvkoilúr ..	17	..	Tamarind, vémbu, iluppai, mango and nágai .	32·41	..	..	
	,, VI ,, Kallakurchi ..	9	..	Tamarind, iluppai, vémbu, nágai, karivélam, and velvélam	66·37	..	..	
	,, VII ,, Vriddháchalam..	7	..	Tamarind, palmyra, mango, banian, odiyamkonnai	36·24	..	..	
		94		Total ..	393·51	..	8,712	The cost is that up to the end of the previous year omitted in the return for 1884-85, but now supplied.
Salem	Salem	51	..	Mango, tamarind, margosa, iluppai, cocoanut and sandal wood	557·47	759	57,950	
	Atúr	14	..	Cocoanut, tamarind, iluppai and margosa ..	107·62	450	8,915	
	Námakal	15	..	Cocoanut, tamarind, iluppai, margosa, vágai and mango	57·48	492	6,684	

Annual list of topes—*continued.*

District.	Range.	Number of topes.	Name of tope.	Chief trees.	Area.	Cost. During year.	Cost. To end of year.	Remarks.
					ACRES.	RS.	RS.	
Salem—*cont.*	Tiruchengód	17	..	Mango, tamarind, iluppai, margosa and nágai.	72·48	301	4,317	
	Hosúr	38	..	Mango, iluppai, senai, avaram, atti, casuarina and bamboos	521·53	701	28,051	
	Dharmapuri	25	..	Tamarind, iluppai, mango, margosa, nágai and karivélam	489·06	866	16,451	
	Krishnagiri	21	..	Iluppai, mango, tamarind, palmyra and karivélam	358·04	1,048	28,139	
	Tirupatúr	15	..	Tamarind, iluppai, mango, nágai and cocoanut	164·50	450	8,368	
	Uttankarai	32	..	Mango, iluppai, tamarind, pomegranate, cocoanut and margosa	235·60	239	31,212	
				Add miscellaneous expenditure adjusted under VIII *d.*	..	53	53	
		228		Total ..	* 2,563·78	5,359	* 1,90,110	* Increased by 9 acres owing to rectification of error in total in the past year.
Trichinopoly	Trichinopoly	6	..	Mango and iluppai	31·24	56	1,254	
	Kulitalai	6	..	Tamarind, mango and sissu	14·94	..	168	
	Musiri	2	..	Mango	4·25	..	..	
	Perambalúr	1	..	Do.	9·12	..	292	
	Udayárpálaiyam	1	..	Do.	2·	..	..	
		16		Total ..	61·55	56	1,714	
Tanjore ..	Western range	16	..	Cocoanut and mango	·153·	..	..	
Coimbatore (North).	Satyamangalam	3	..	Palmyra	20·79	..	2,328	
	Kollegál	4	..	Karuvélam and tamarind	302·53	..	576	
	Bhavání taluk	26	..	Karuvélam and palmyra	371·62	..	1,799	
	Erode	52	..	Palmyra, velvélam and cocoanut	* 601·05	..	† 12,801	* 9·33 acres of Vadamugam Vellodu is newly added.
	Dhárápuram	76	..	Tamarind, palmyra and velvélam	12,478·84	..	..	† The cost on account of Tenmugam Vellodu tope of Rs. 31 up to the end of the previous year omitted in the return for 1884-85 is now added.
	Karúr	22	..	Palmyra and cocoanut	246·88	..	10,882	
		183			14,021·71	164	28,386 + 164	
							28,550	
				Add pay of cooly watchers at Government topes at Nadapatti and Vellore and Erode taluks..	..	11	11	
				Total ..	14,021·71	175	28,561	

Annual list of topes—*continued.*

District.	Range.	No. of topes.	Name of tope.	Chief trees.	Area.	Cost. During year.	Cost. To end of year.	Remarks.
					ACRES.	RS.	RS.	
Coimbatore (South).	Palladam	6	..	Velvélam, sandal, teak, palmyra and karuvélam	100·79	..	5,197	
	Coimbatore	2	..	Cocoanut trees	12·21	221	540	One of them is an experimental garden.
		8		Total ..	113·	221	5,737	
Madura	No. I, Periyakulam range ..	9	..	Tamarind, vémbu, iluppai, vágai, nával, bamboo, arasu and sandal wood	26·65	95	6,097	
	„ II, or Kodaikánal „ ..	2	..	Tamarind, iluppai, vémbu, vágai and marutam	2·15	48	734	
	„ III, or Dindigul	8	..	Tamarind, margosa, iluppai, vágai and velvélam	52·51	..	3,502	
	„ IV, or Melúr	2	..	Margosa, iluppai, jack tree and mango ..	17·5	204	614	One of them is an experimental garden.
				Add pay of watchers adjusted under VIII *d* ..	..	947	947	
		21		Total ..	99·	1,294	11,894	
Tinnevelly ..	Tinnevelly	4	..	Mango, tamarind and palmyra	34·78	121	322	
	Tenkarai	1	..	Cocoanut, mango, jack and orange	·98	20	185	
	Utapidáram	2	..	Bamboo, casuarina and iluppai	11·44	..	328	
	Sátúr	2	..	Bamboo and tamarind	2·99	..	399	
	Sankaranainárkoil	6	..	Mango, bamboo, iluppai and banyan	15·21	..	731	
	Tenkási	8	..	Margosa, marudai and vágai	14·45	69	503	
	Ambásamudram	3	..	Margosa, marudai, vágai, iluppai and tamarind	9·	52	480	
	Nángunéri	4	..	Mango, bamboo, banyan and margosa ..	19·43	170	681	
		30		Total ..	108·	432	3,629	
Malabar (Wynaad) and Pálghat.	Wynaad sub-division	1	..	*Eucalyptus*, ceara rubber, cinchona, mahogany, sappan, *ficus elastica*, &c.	2·50	386	1,374	
	Pálghat range	2	..	Mango and jack tree	3·	..	..	
		3		Total ..	5·50	386	1,374	
Malabar (Nilambúr).	.....	..	..	.....	..	..	..	
Canara ..	.....	..	..	.....	..	..	..	
		1,269		Grand Total ..	17,598·42	9,040	2,69,914	

Annual Form No. 62.

Forest Department, Madras, Southern Circle.

Area of forest tracts protected from fire during the dry season of 1886 to accompany report for 1885-86.

District.	Forest tract.	Up to 15th June 1885.		During the remaining period of the official year ending 31st March 1886.				Total cost up to 31st March 1886.	Year when protection commenced	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
		ACS.	RS. A. P.	ACS.		ACS.	RS. A. P.	RS. A. P.		
	Tiruvallúr Range.									
Chingleput..	Kámbákam	7,350	1,257 0 0	7,350	..	7,350	240 0 0	1,497 0 0	1883-84	
	Total of the district ..	7,350	1,257 0 0	7,350	..	7,350	240 0 0	1,497 0 0	..	
	Vellore Range.									
North Arcot	Puttúr	12,800	375 0 0	12,800	..	12,800	..	375 0 0	1879	
	Patrakád	19,200	750 0 0	19,200	..	19,200	..	750 0 0	1881	
	Thellai reserve	12,800	1,077 0 0	15,121	2	15,119	20 0 0	1,097 0 0	..	
	Ambúr fuel reserve	3,834	716 0 0	3,840	..	3,840	37 0 0	753 0 0	1879	
	Do. plantation	5	..	5	..	5	..	..	1884	
	Carnaticghur reserve ..	12,748	1,002 0 0	7,069	..	7,069	48 0 0	1,050 0 0	1881	
	Kápalúr	1,280	..	1,267	..	1,267	..	..	1884	
	Kélúr	3,068	..	3,537	..	3,537	..	..	,,	
	Alliyamangalam reserve ..	10,502	..	10,062	..	10,062	..	..	,,	
	Ammerdi plantation ..	25	..	25	..	25	..	..	,,	
	Palamady reserve	6,330	307 0 0	6,400	..	6,400	4 0 0	310 0 0	1880	
	Chandragiri Range.									
	Napier reserve ...	8,772	820 0 0	8,772	..	8,772	52 0 0	872 0 0	1880	
	Mámundúr do. ..	1,776	1,053 0 0	1,776	..	1,776	19 0 0	1,042 0 0	1874	
	Chámala do. ..	9,300	111 0 0	9,600	..	9,600	30 0 0	141 0 0	1880	
	Panapák do. ..	6,400	47 0 0	6,400	..	6,400	41 0 0	88 0 0	,,	
	Pudipatlabail do. ..	2,560	25 0 0	2,560	..	2,560	..	25 0 0	1884	
	Paradarámi do. ..	6,400	97 0 0	15,242	..	15,242	37 0 0	134 0 0	1880	
	Airála do. ..	6,400	116 0 0	6,400	..	6,400	33 0 0	149 0 0	,,	
	Penamúr do. ..	6,400	..	6,400	..	6,400	..	..	,,	
	Chittoor do ..	2,560	135 0 0	360	..	360	..	135 0 0	1882	
	Santapet do. ..	2,560	15 0 0	2,276	..	2,276	11 0 0	26 0 0	,,	
	Bommasamudram reserve ..	3,000	..	1,426	..	1,426	412 0 0	412 0 0	1884	
	Chilapalle reserve	1,063	..	1,266	..	1,266	25 0 0	25 0 0	,,	
	Kinátipalle do.	2,856	..	1,417	..	1,417	12 0 0	12 0 0	,,	
	Gazulamandiyam plantation.	243	..	250	..	250	..	..	,,	
	Palmanér Range.									
	Mortana reserve ..	16,000	368 0 0	16,000	..	16,000	36 0 0	404 0 0	1884	
	Musalimadugu do. ..	9,600	64 0 0	9,600	..	9,600	20 0 0	84 0 0	,,	

Area of forest tracts protected from fire during the dry season of 1886 to accompany report for 1885-86—*continued.*

District	Forest tract.	Up to 15th June 1885.		During the remaining period of the official year ending 31st March 1886.				Total cost up to 31st March 1886	Year when protection commenced	Remarks
		Area actually protected	Total cost.	Area attempted to be protected	Failures	Area actually protected	Amount expended			
	Palmaner Range—continued.	ACS.	RS A P	ACS.		ACS	RS A. P.	RS. A P		
North Arcot —*continued.*	Peddúr reserve	9,600	233 0 0	9,600	3	9,597	50 0 0	283 0 0	1880	
	Basuvareddipalle reserve ..	10,240	48 4 0	10,240	..	10,240	24 0 0	72 0 0	1884	
	Ambúr Drug do. ..	5,760		5,760	..	5,760	..	..	1880	
	Naikanéri do. ..	6,400	202 0 0	6,400	..	6,400	58 0 0	260 0 0	1884	
	Vikramasi do. ..	161	17 0 0	161	..	161	..	17 0 0	1882	
	Tiruvallam plantation ..	435	..	435	..	435	..	..	1884	
	Virinjipuram do. ..	260	..	260	..	260	..	..	,,	
	Chaindr do. ..	130	..	130	..	130	..	..	,,	
	Ammundi do. ..	160	..	160	..	160	..	..	,,	
	Tándráyagunta do ..	2	..	2	..	2	..	..	,,	
	Palmanér do. ..	2	..	2	..	2	..	..	,,	
	Nagamangalam do ..	31	..	31	..	31	..	..	,,	
	Piduguvaripalle do ..	20	..	20	..	20	..	..	,,	
	Venkatagirikota do ..	4	..	4	..	4	..	..	,,	
	Baireddipalle do ..	4	..	4	..	4	..	..	,,	
	Head-quarter Range.									
	Punganúr reserve	5,400	704 0 0	3,743	½	3,743	102 0 0	806 0 0	1884	
	Sátúr do.	1,048	..	1,048	..	1,048	..	..	,,	
	Sennaléri do	1,185	..	356	..	356	..	..	,,	
	Tandalappantangal reserve..	1,154	..	1,154	..	1,154	..	..	,,	
	Sholavaram reserve	1,281	..	1,281	..	1,281	..	..	,,	
	Enadavádi do	1,566	..	1,566	..	1,566	..	..	,,	
	Kílminnal plantation ..	150	..	112	..	112	..	..	,,	
	Pennur reserve ..	1,676	..	939	..	939	..	..	1880	
	Venkundram do ..	822	..	1,288	..	1,288	..	..	,,	
	Badur do. ..	829	..	873	..	873	..	..	,,	
	Nambedu do ..	929	..	720	..	720	..	..	,,	
	Kodiyalam do. ..	255	..	125	..	125	..	..	,,	
	Nedungal do ..	3,632	..	3,645	..	3,645	..	..	1883	
	Vishámangalam do ..	1,148	..	1,148	..	1,148	..	..	,,	
	Nedungunam do. ..	1,798	..	1,797	..	1,797	..	..	,,	
	Bramhakáteri do. ..	1,589	..	635	..	635	..	..	,,	
	Gúdalúr do. ..	559	..	535	..	535	..	..	1880	
	Kanjampet do. ..	154	..	..	..	..	..	..	,,	
	Ammanur do. ..	210	..	203	..	203	..	..	,,	
	Uriyúr do. ..	672	..	540	..	540	..	..	,,	
	Bánavaram do. ..	1,071	..	1,085	..	1,085	..	..	,,	
	Anapák do. ..	61	..	..	..	..	..	..	,,	
	Tengal do. ..	120	..	250	..	250	..	..	,,	
	Ammúr do. ..	5,818	..	6,020	..	6,020	..	..	1884	
	Kolatúr do. ..	1,781	..	1,779	..	1,779	..	..	,,	

Area of forest tracts protected from fire during the dry season of 1886 to accompany report for 1885-86—*continued.*

District.	Forest tract.	Up to 15th June 1885.		During the remaining period of the official year ending 31st March 1886.				Total cost up to 31st March 1886.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
		ACS.	RS. A. P.	ACS.		ACS.	RS. A. P.	RS. A. P.		
	Head-quarter Range—continued.									
North Arcot—*continued.*	Minnel reserve	1,395	..	1,378	..	1,378	..	..	1884	
	Vannivedu plantation ..	30	..	30	..	30	..	..	,,	
	Arkónam Sub-Magistrate's compound.	5	..	5	..	5	..	..	,,	
	Head Assistant Collector's compound.	4	..	..	..	..	..	..	..	
	Arkónam plantation ..	37	..	37	..	37	..	..	1884	
	Total of the district ..	237,869	8,372 0 0	234,572	5½	234,566	739 0 0	9,111 0 0	..	
South Arcot.	*No. I, Tiruvannámalai Range.*									
	Anaimalai reserved forests..	3,000	1,471 0 0	1,760	..	..	..	..	From dry season, 1878, inclusive.	
	Do. other forests ..			600	..	..	..	..	Do.	
	Kavuttimalai	7,500		6,000	..	..	..	..	Do.	
	Tenmalai	20,000		20,000	200	..	..	..	1877	
	Mudinai	4,000		4,000	..	..	..	..	1883	
	Damarakádu and Jammalai.	6,400		8,000	120	..	..	..	1884	
					..	..	..	..	1884-85	
	Chinnasamudram	6,200		6,000	..	..	..	..	1878	
	Javadi slopes above Arasangani and over the Chinnasamudram.	..		2,000	..	..	..	..	1885-86	
	Pelamarathúr	..		8,000	..	..	..	..	,,	
	Nallapattu	..		7,000	..	102,010	495 0 0	1,966 0 0	,,	
	Valasalmalai	4,000		7,000	..	..	..	..	1883-84	
	Perungkolatúr Swamimalai, including 2,000 acres in Kullakurchi taluk.	8,000		11,000	..	..	..	..	,,	
	No. IV, Kullakurchi Range.									
	Tagarai	11,000		15,000	30	..	..	..	1883-84	
	Kanai Moyamalai	..		2,000	..	..	..	..	1885-86	
	Pangam Kandatimalai ..	..		1,000	..	..	..	..	,,	
	Pevalam Peramatalmalai ..	..		1,000	..	..	..	..	,,	

Area of forest tracts protected from fire during the dry season of 1886 to accompany report for 1885-86—*continued*.

District.	Forest tract.	Up to 15th June 1885.		During the remaining period of the official year ending 31st March 1886.				Total cost up to 31st March 1886.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
		ACS.	RS. A. P.	ACS.		ACS.	RS. A. P.	RS. A. P.		
	No IV, Kullakurchi Range—continued.									
South Arcot—*cont.*	Rungappanur including Naraimalai.	..	1,471 0 0	2,000	..	..	..	..	1885-86	To effect this protection during the current fire-season, 86 miles of fire-lines cleared, 16½ miles fire-traced.
	Deduct area of land occupied by fire-tracers, &c., and the acreage of failure, of which particulars are not specified.	128		..	..	..	..	..	..	
	Total of the district ..	69,972	1,471 0 0	102,360	350	102,010	495 0 0	1,966 0 0	..	
	Salem Range.									
Salem ..	Vadagampatti blocks of Kanavaipudur reserved land..	1,976	864 0 0	1,976	..	1,976	218 0 0	1,082 0 0	1881	
	Merur block of Lokur reserved land.	799	386 0 0	799	..	799	120 0 0	506 0 0	"	
	Mullapuram block of Mullapuram reserved land.	587	375 0 0	587	..	587	135 0 0	510 0 0	"	
	Ammanúr block of Lokur reserved land.	252	144 0 0	252	..	252	34 0 0	178 0 0	1882	
	Pelapallikombai block of Pelapallikombai reserved land.	981	324 0 0	981	..	981	32 0 0	356 0 0	"	*Salem Range.* Map area .. .. 10,537 acres. Outline .. .. 58 miles. Interior lines .. 13¼ "
	Kariyappakombai block of Jarimalai and Kanavaipudur reserved land.	531	201 0 0	531	..	531	59 0 0	260 0 0	"	*Fire-traced.* First .. .. 27½ miles. Renewed .. .. 43¾ "
	Kanjiri block of Kanjiri reserved land.	1,929	154 0 0	1,929	..	1,929	63 0 0	217 0 0	1883	Total .. 71¼
	Pannikaradu block of Kanjiri and Panniharadu reserved lands.	2,645	879 1 0	2,645	..	2,645	71 0 0	950 0 0	"	RS. A. P. Cost per mile .. .. 11 10 4 Cost per acre 0 1 3
	Karuvattuparai block of Karuvattuparai reserved land.	837	463 0 0	837	..	837	98 0 0	561 0 0	1884	
	Total, Salem range ..	10,537	3,790 0 0	10,537	..	10,537	830 0 0	4,620 0 0	..	

Area of forest tracts protected from fire during the dry season of 1886 to accompany report for 1885-86—*continued.*

District.	Forest tract.	Up to 15th June 1885.		During the remaining period of the official year ending 31st March 1886.				Total cost up to 31st March 1886.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
		ACS.	RS. A. P.	ACS.		ACS.	RS. A. P.	RS. A. P.		
Salem.—*cont.*	*Uttankarai Range.*									*Uttankarai Range.* Map area .. .. 4,269 acres. Outline .. .. 19½ miles. Interior lines .. 8½ ,, *Fire-traced.* First .. .. *Nil.* Renewed .. .. 25½ miles. Total .. 25½ ,, Cost per mile .. .. RS. A. P. 13 10 11 Cost per acre 0 1 3
	Uttankarai block of Uttankarai reserved land.	469	240 0 0	469	..	469	67 0 0	307 0 0	1881	
	Singarapet block of Singarapet reserved land.	2,624	1,022 0 0	2,624	1	2,623	185 0 0	1,207 0 0	,,	
	Harúr block of Harúr reserved land.	1,176	459 0 0	1,176	2	1,174	97 0 0	556 0 0	1882	
	Total, Uttankarai range ..	4,269	1,721 0 0	4,269	3	4,266	349 0 0	2,070 0 0	..	
	Tirupatúr Range.									
	Kolatúr block of Nagalatu reserved land.	1,213	20 0 0	1,213	..	1,213	66 0 0	86 0 0	1885	
	Total, Tirupatúr range ..	1,213	20 0 0	1,213	..	1,213	66 0 0	86 0 0	..	
	Krishnagiri Range.									
	Bégúr block of Bégúr reserved land.	220	148 0 0	220	..	220	3 0 0	151 0 0	1883	
	Pudúr block of Kotúr reserved land.	1,069	485 0 0	1,069	..	1,069	34 0 0	519 0 0	,,	
	Togarapalli block of Togarapalli reserved land.	499	82 0 0	499	..	499	15 0 0	97 0 0	1884	
	Total, Krishnagiri range ..	1,788	715 0 0	1,788	..	1,788	52 0 0	767 0 0	..	
	Hosúr Range.									*Hosúr Range.* Map area .. 13,172 acres. Outline .. .. 42½ miles. Interior lines .. *Nil.* *Fire-traced.* First .. .. 8 miles. Renewed .. .. *Nil.* Total .. 8 miles. Cost per mile .. .. RS. A. P. 7 13 2 Cost per acre 0 0 1
	Mailgiri, block of Ayyur and Marandaholli reserved lands.	..	..	5,461	..	5,461	..	..	1885	
	Kanavoikothapalli block of Gulhatti new and Tholavabetta reserved lands.	..	..	742	..	742	34 0 0	34 0 0	,,	
	Gulhatti block of Gulhatti new reserved land.	..	..	3,248	..	3,248	..	..	,,	

Area of forest tracts protected from fire during the dry season of 1886 to accompany report for 1885-86—*continued.*

District.	Forest tract.	Up to 15th June 1885.		During the remaining period of the official year ending 31st March 1886.				Total cost up to 31st March 1886.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	Hosur Range—continued.	ACS.	RS. A. P.	ACS.		ACS.	RS. A. P.	RS. A. P.		
Salem—*cont.*	Munchi block of Munchi new reserved land.	..	..	3,305	..	3,305	..	..	1885	
	Kanavanagasundram block of Thaluvabetta reserved land.	..	..	416	..	416	28 0 0	28 0 0	,,	
	Total, Hosúr range ..	..	..	13,172	..	13,172	62 0 0	62 0 0	..	
	Total of the district ..	17,807	6,246 0 0	30,979	3	30,976	1,359 0 0	7,605 0 0	..	
	Musiri Range.									
Trichinopoly.	Sengathipatti	..	..	3,000	..	3,000	* 32 0 0	..	1885-86	* Pay of watchers.
	Melúr	..	..	3,000	..	3,000	38 0 0	..	,,	
	Perambalúr Range.									
	Manalodai	..	..	4,000	..	4,000	37 0 0	..	,,	
	Solamatti †	..	..	7,000	..	7,000	677 0 0	..	,,	† Both inner and outer fire-lines cut are estimated to be upwards of 22 miles in length.
	Total of the district ..	..	..	17,000	..	17,000	784 0 0	784 0 0	..	
Tanjore ..	....	*Nil.*								
	Kollegál Range.									
Coimbatore (North).	I. Jadatalahalla	361	77 0 0	361	..	361	19 0 0	96 0 0	1884-85	
	II. Udayárpálaiyam ..	297	35 0 0	297	..	297	10 0 0	45 0 0	,,	
	III. Bailur	1,186	211 0 0	1,186	..	1,186	7 0 0	218 0 0	1879-80	
	Satyamangalam Range.									
	IV. Gairmalla	520	32 0 0	520	..	520	10 0 0	43 0 0	1885-86	
	Total ..	2,364	356 0 0	2,364	..	2,364	46 0 0	402 0 0	..	

Salem District.

Map area ..	30,979	acres.
Outline	142	miles.
Interior lines ..	25¼	,,

Fire-traced.

First	41	miles.
Renewed	85¾	,,
Total ..	126¾	,,

	RS.	A.	P.
Cost per mile of fire-line	10	11	8
Cost per acre actually protected	0	0	8

Area of forest tracts protected from fire during the dry season of 1886 to accompany report for 1885-86—*continued.*

District	Forest tract.	Up to 15th June 1885		During the remaining period of the official year ending 31st March 1886.				Total cost up to 31st March 1886.	Year when protection commenced.	Remarks
		Area actually protected	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
		ACS.	RS. A. P.	ACS.		ACS.	RS. A. P.	RS. A. P.		
	Tunakadaru Range									
Coimbatore (South).	No I reserve	2,600	606 0 0	2,630	2,630	..	422 0 0	1,028 0 0	1882-83	
	Punachi No II reserve ..	3,140	641 0 0	3,140	..	3,140	37 0 0	678 0 0	,,	
	Udamalpet-Pálár reserve ..	485	162 0 0	485	..	485	26 0 0	188 0 0	1883-84	
	Bolampatti blocks I and II..	6,400	217 0 0	6,400	..	6,400	195 0 0	412 0 0	1884-85	
	Sholakarai-Sholakarai ..	1,292	784 0 0	1,292	..	1,292	151 0 0	935 0 0	1883-84	
	Total of the district ..	13,917	2,410 0 0	13,947	2,630	11,317	831 0 0	3,241 0 0	..	
	No. I, or Periyakulam Range.									
Madura ..	Vannattiparai teak plantation	4	4 0 0	4	..	4	..	4 0 0	1883-84	
	Vannattiparai reserved forest.	27,481	233 0 0	27,481	340	27,141	168 0 0	401 0 0	1884-85	
	Pambár	3,255	817 0 0	4,755	46	4,709	693 0 0	1,510 0 0	1883-84	
	Murugamalai reserved land.	3,227	72 0 0	3,227	..	3,227	266 0 0	338 0 0	1884-85	
	Seeranganar	..	..	3,616	..	3,616	12 0 0	12 0 0	1885-86	
	Melagudalur	..	..	1,280	300	980	16 0 0	16 0 0	,,	
	Sengalvarai	..	..	5,210	..	5,210	43 0 0	43 0 0	,,	
	No II, or Kodaikánal Range.									
	Kodaikánal scattered plantation.	3	6 0 0	3	..	3	..	6 0 0	1883-84	
	Kodaikánal acacia	5	4 0 0	5	..	5	..	4 0 0	,,	
	Pumbarai	6	3 0 0	6	..	6	..	3 0 0	,,	
	Perumalmalai	2,880	394 0 0	8,000	300	7,700	280 0 0	674 0 0	,,	
	Pannakad reserved land ..	2,560	180 0 0	2,560	..	2,560	103 0 0	283 0 0	,,	
	Velamkombai plantation ..	4	10 0 0	4	..	4	..	10 0 0	,,	
	Parappar	42	11 0 0	42	..	42	..	11 0 0	1884-85	
	Arrankanal	..	..	2,560	..	2,560	..	..	1885-86	
	Kallar	..	..	9,600	..	9,600	42 0 0	42 0 0	,,	
	Pumbarai and Velpatti valley.	..	..	13,587	30	13,557	162 0 0	162 0 0	,,	
	No. III, Dindigul Range.									
	Mudimalai	6,086	51 0 0	6,086	..	6,086	76 0 0	127 0 0	1884-85	
	The whole of Sirumalai * ..	12,764	257 0 0	13,405	..	13,405	321 0 0	578 0 0	1885-86	* A portion of this measuring about 12,764·8 acres were protected in 1884-85 at a cost of Rs. 257-1-11.
	No. V, or Madura Range.									
	Alagarmalai	13,036	3,814 0 0	13,036	5	13,031	1,048 0 0	4,862 0 0	1882-83	
	Vaggathimalai reserved land.	4,200	100 9 0	4,200	..	4,200	149 0 0	258 0 0	1884-85	
	Kachakattai reserved land..	1,694	..	1,694	..	1,694	..	..	,,	
	Total of the district..	77,249	5,965 0 0	120,362	1,021	119,341	3,379 0 0	9,344 0 0	..	

Area of forest tracts protected from fire during the dry season of 1886 to accompany report for 1885-86—*continued.*

District.	Forest tract.	Up to 15th June 1885.		During the remaining period of the official year ending 31st March 1886.				Total cost up to 31st March 1886.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
		ACS.	RS. A. P.	ACS.		ACS.	RS. A. P.	RS. A. P.		
	Ambásamudram.									
Tinnevelly ..	Block between Sarveyar and Kareyar rivers, Pápanásam hills.	10,477	652 0 0	10,477	..	10,477	821 0 0	1,473 0 0	1884-85	
	Block of forests between Sarveyar, Kinampannai, Teri and Muttirimottai, Pápanásam hills.	..	..	1,200	..	1,200	158 0 0	158 0 0	1885-86	
	Nánguméri.									
	Block of forests on the Kalakad hills commencing from Mulakasani *viá* Punjanthanji to Kiraithondu Kavaian from Kopurakilmottar to Retterikal and following the line of cairns towards the Agilisastankoil.	..	..	8,320	175	8,145	538 0 0	538 0 0	"	
	Tenkási.									
	Boundary line between Chokkampatti and Government forests, 30 feet wide.	..	..	3 miles.	..	3 miles	54 0 0	54 0 0	"	
	Boundary line between Vairavankulam and Government forests.	..	..	10 "	..	10 "	180 0 0	180 0 0	"	
	Sankaranainárkoil.									
	Boundary between Tirumalai Naicken Pudukudi and Government forests.	..	..	3 "	..	3 "	9 0 0	9 0 0	"	
	Total of the district ..	10,477	652 0 0	19,997 16 miles of boundary line.	175	19,822 16 miles of boundary line.	1,760 0 0	2,412 0 0	..	

Area of forest tracts protected from fire during the dry season of 1886 to accompany report for 1885-86—*continued.*

District.	Forest tract.	Up to 15th June 1885.		During the remaining period of the official year ending 31st March 1886.				Total cost up to 31st March 1886.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	Wynaad and Palghat.	ACS.	RS. A. P.	ACS.		ACS.	RS. A. P.	RS. A. P.		
Malabar (Wynaad and Pálghat).	Begúr	15,229	944 0 0	15,366	5,440	9,926	494 0 0	1,438 0 0	1882-83	
	Wálayár	3,012	3,122 0 0	3,017	..	3,017	445 0 0	3,567 0 0	1873-74	
	Chenat Nair	2,560	152 0 0	2,560	40	2,520	121 0 0	273 0 0	1884-85	
	Total of the district..	20,801	4,218 0 0	20,943	5,480	15,463	1,060 0 0	5,278 0 0	..	
Malabar (Nilambúr.)	Karampoya reserves ..	3,945	105 0 0	3,955	..	3,955	87 0 0	192 0 0	1884-85	
	Amarampalam do. ..	409	161 0 0	409	..	409	50 0 0	151 0 0	1860-61	
	Chathemborai do. ..	..	..	499	..	499	64 0 0	64 0 0	1872-73	
	Nellikutta forest	1,799	170 0 0	1,824	..	1,824	118 0 0	288 0 0	1883-84	
	Other teak plantations ..	3,027	591 0 0	2,493	..	2,493	335 0 0	926 6 0	1842-43	
	Total of the district..	9,180	967 0 0	9,180	..	9,180	654 0 0	1,621 0 0	..	
South Canara	*Kásaragód Range.*									
	Parappa	115	82 0 0	115	..	115	25 0 0	107 0 0	1882-83	
	Udipi Range.									
	Pillarkan	320	21 0 0	320	2	318	..	22 0 0	1883-84	
	Chinkramale	..	..	..	..	..	88 0 0	88 0 0	1885-86	Area unknown. The work of protection being late, fires occurred in places outside and burned up to and a little inside the boundary when the grass was still somewhat green.
	Mangalore Range.									
	Chembugudde	75	3 0 0	75	..	75	7 0 0	9 0 0	1884-85	
	Kuttiyar	25	2 0 0	25	..	25	4 0 0	6 0 0	,,	
	Portagi and Kayarpallar ..	..	..	96	3	93	5 0 0	5 0 0	1885-86	
	Coondapoor Range.									
	Sabladi	208	..	208	21	187	6 0 0	6 0 0	1884-85	
	Total of the district ..	743	108 0 0	* 839	26	* 813	135 0 0	243 0 0	..	* Excluding Chenkramalai.
	Grand Total ..	467,729	32,022 0 0	579,893	9,690½	570,502	11,482 0 0	43,504 0 0	..	

Charged in previous years	28,653 0 0
Do. in 1885-86 (April to June)	3,369 0 0
Do. in 1885-86 (June to 31st March 1886) ..	11,482 0 0
Total ..	43,504 0 0

Annual Form No. 63.

Forest Department, Madras, Southern Circle.

Prosecutions for breaches of forest rules during 1885-86.

District.	Cases pending from 1884-85.	New cases of the year.					Total cases.	Disposed of during the year.						Cases pending at close of year.
		Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracks in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Total.		
								Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
Chingleput	..	..	10	..	..	10	10	8	22	2	17	10	39	..
North Arcot	3	1	84	14	1	100	103	75	189	28	122	103	311	..
South Arcot	4	..	21	1	2	24	28	16	47	9	22	25	69	3
Salem	* 74	2	379	27	16	424	498	175	572	276	1,715	451	2,287	47
Trichinopoly	25	..	76	3	11	90	115	90	180	22	44	112	224	3
Tanjore	† 3	..	45	..	..	45	48	39	39	8	9	47	48	1
Coimbatore-North	..	..	9	1	2	12	12	8	37	4	8	12	45	..
Coimbatore-South	..	1	2	..	18	21	21	17	37	4	12	21	49	..
Madura — Under the Forest Act	28	6	73	9	18	106	134	48	98	76	252	124	350	10
Madura — Under the Penal Code	2	..	6	..	..	6	8	5	8	3	11	8	19	..
Madura — Total	30	6	79	9	18	112	142	53	106	79	263	132	369	10
Tinnevelly	9	5	80	8	3	96	105	60	344	22	30	102	374	3
Malabar (Wynaad and Pálghat)	..	1	3	4	4	12	12	6	27	6	15	12	42	
Malabar (Nilambúr)	..	..	3	2	7	12	12	7	13	5	18	12	31	..
South Canara	‡ 41	11	183	..	2	196	237	71	122	142	247	213	369	24
Total ..	189	27	974	69	84	1,154	1,313	645	1,735	607	2,522	1,252	4,257	91

* The number of cases shown as pending cases of last year is 89. The present figure is more accurate and is taken from the returns submitted by Magistrates. Last year's figures were taken from the statements submitted by range officers and probably included cases pending with them to be charged after preliminary inquiry.

† Four cases are shown as pending in the return for 1884-85; but only three are shown in this return, the other one which was pending before the Taluk Magistrate, Shiyáli, having been disposed of under the Penal Code, and hence omitted in this return.

‡ 44 in the previous return. Difference not explained.

ANNUAL FORM No. 64.

Forest Department, Madras, Southern Circle.

SUMMARY of revenue of the different districts, 1885-86.

Budget heads.	Direction.	Chingleput.	North Arcot.	South Arcot.	Salem.	Trichinopoly.	Tanjore.	Coimbatore (North).
1	2	3	4	5	6	7	8	9
Receipts.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
I. Timber and other produce removed from the forests by Government agency—								
(a) Timber	..	5,297 10 7	3,239 2 0	4,861 12 10	1,570 13 8	411 10 0	..	..
(b) Firewood and charcoal	..	2 13 6	8,690 3 3	2,893 13 10	..	11,443 10 0	..	..
(c) Bamboos	..	..	..	..	86 6 0	77 8 0	..	..
(d) Sandalwood	..	..	4,478 3 3	464 4 9	9,329 10 11	..	..	2,000 0 0
(e) Grass and other minor produce	..	..	94 4 11	241 14 8	13 2 0	131 8 0	..	..
II. Timber and other produce removed from the forests by consumers or purchasers—								
(a) Timber	..	4,352 15 10	19,483 9 10	2,165 9 8	12,326 10 8	4,035 2 5	186 0 0	5,528 15 0
(b) Firewood and charcoal	..	7,544 12 10	39,400 3 3	15,569 9 11	24,210 15 8	8,776 13 0	4,963 9 8	4,546 11 10
(c) Bamboos	..	494 6 0	15,448 3 6	2,776 14 6	17,178 9 0	2,452 15 7	9 4 0	8,402 11 6
(d) Grazing and fodder grass	..	..	100 0 0	68 15 3	418 13 2	2,122 5 0	200 2 6	1,437 10 0
(e) Other minor produce	..	1,923 5 7	11,312 13 11	6,384 6 0	55,309 5 1	2,483 7 9	1,951 7 3	22,598 11 5
III. Confiscated drift and waifwood	..	17 10 8	337 1 3	438 13 9	974 6 1	32 3 2	9 13 9	309 6 1
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	..
V. Miscellaneous—								
(a) Fines and forfeitures	..	..	..	53 5 0	1 12 0	1 0 0	..	..
(b) Refund	88 12 4	74 4 6	56 3 6	1 7 4	307 6 1	0 0 10	..	12 9 0
(c) Other sources	4 13 8	15 0 9	358 13 6	379 9 3	1,469 1 7	21 6 0	2 4 6	1,494 5 6
Total ..	93 10 0	19,723 0 3	1,02,998 14 2	36,300 8 9	1,23,196 15 11	31,989 9 9	7,322 9 8	46,321 0 4

Summary of revenue of the different districts, 1885-86—*continued.*

Budget heads.	Coimbatore (South).	Madura.	Tinnevelly.	Malabar (Wynaad and Pálghat).	Malabar (Nilambúr).	South Canara.	Total.
	10	11	12	13	14	15	16
Receipts.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
I. Timber and other produce removed from the forests by Government agency—							
(*a*) Timber	7,387 8 6	203 3 0	1,891 7 0	28,648 9 1	79,497 3 0	1,672 5 11	1,34,681 5 7
(*b*) Firewood and charcoal	720 0 0	1,366 10 0	..	5,535 10 9	46 0 0	78 2 6	30,776 15 10
(*c*) Bamboos	46 3 0	..	182 0 0	148 9 4	603 13 10	..	1,144 8 2
(*d*) Sandalwood	..	..	..	..	..	..	16,272 2 11
(*e*) Grass and other minor produce	2,277 15 8	154 4 0	48 8 9	351 13 0	..	9,994 14 1	13,308 5 1
II. Timber and other produce removed from the forests by consumers or purchasers—							
(*a*) Timber	8,210 0 2	6,673 12 3	5,153 11 7	1,209 12 0	..	3,537 10 9	72,863 14 2
(*b*) Firewood and charcoal	9,311 0 11	12,783 11 6	20,919 12 2	279 8 6	..	17,025 5 7	1,65,332 2 10
(*c*) Bamboos	6,425 10 5	2,196 13 6	489 4 4	376 14 0	390 10 7	753 0 2	57,395 5 1
(*d*) Grazing and fodder grass	2,064 4 6	1,338 3 0	57 4 0	107 0 0	..	..	7,914 9 5
(*e*) Other minor produce..	8,014 2 9	9,949 9 5	10,079 12 0	1,230 4 0	..	4,206 14 8	1,35,444 3 10
III. Confiscated drift and waifwood	293 12 4	1,770 10 10	234 14 10	..	..	1,392 5 3	5,811 2 0
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..
V. Miscellaneous—							
(*a*) Fines and forfeitures	..	9 4 0	35 0 0	..	..	..	100 5 0
(*b*) Refunds	15 0 0	210 3 11	922 14 9	81 3 3	2 7 6	176 13 2	1,949 6 2
(*c*) Other sources	283 12 0	1,214 3 11	104 1 3	1,565 9 6	600 0 0	1,810 4 7	9,323 6 0
Total ..	45,049 6 3	37,870 9 4	40,118 10 8	39,534 13 5	81,140 2 11	40,647 12 8	6,52,317 12 1

MADRAS,
1st July 1886.

(Signed) G. HOMFRAY,
Acting Examiner of Forest Accounts.

ANNUAL FORM No. 64.

Forest Department, Madras, Southern Circle.

Summary of expenditure of the different districts, 1885-86.

Budget heads.	Direction.	Chinglepat.	North Arcot.	South Arcot.	Salem.	Trichinopoly.	Tanjore.	Coimbatore (North).
1	2	3	4	5	6	7	8	9
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
A.—*Conservancy and Works.*								
I. Timber and other produce removed from the forests by Government agency—								
(a) Timber	..	1,627 2 8	1,030 3 0	2,089 3 8	1,473 7 1	49 6 0	..	20 4 1
(b) Firewood and charcoal	..	..	1,087 15 1	1,573 14 5	25 4 0	4,279 12 0	..	..
(c) Bamboos	..	..	92 13 0	..	47 0 0	16 1 6	..	..
(d) Sandalwood	..	..	637 9 2	60 2 0	274 0 3	..	..	34 12 4
(e) Grass and other minor produce.. ..	..	..	..	118 14 0	172 10 0	30 0 0	..	..
II. Timber and other produce removed from the forests by consumers or purchasers	1,415 3 0	641 8 3	6,060 10 2	1,847 2 2	8,348 8 5	4,050 5 6	268 2 8	4,641 8 0
III. Confiscated drift and waifwood	..	..	2 4 0	0 13 6	67 3 3	..	..	51 14 0
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	.	..
V. Rent of leased forests and payments to shareholders in forests managed by Government ..	..	..	..	..	..	..	..	..
VI. Live-stock, stores, tools and plant—								
(a) Purchase of cattle	..	..	..	.25 0 0	..	140 0 0	..	..
(b) Feed and keep of cattle	..	..	..	14 9 6	..	112 0 0	..	..
(c) Stores, tools and plant	161 9 0	321 6 0	394 13 0	187 14 4	35 4 0	265 0 3	7 12 2	83 2 8
VII. Communications and buildings—								
(a) Roads and bridges	..	215 12 0	370 14 0	1,328 14 2	103 7 0	..	..	..
(b) Buildings	..	70 9 0	1,076 14 2	352 14 5	1,081 13 2	235 0 0	..	568 8 8
(c) Other works	..	..	..	97 15 0	..	..	..	18 8 0
VIII. Demarcation, improvement and extension of forests—								
(a) Demarcation	..	499 12 11	172 15 0	2,649 5 6	1,044 11 9	181 14 0	20 13 2	1,321 1 4
(b) Compensation for land and rights ..	..	..	..	..	403 12 0	52 0 0	..	120 0 0
(c) Surveys and working plans	34 0 0	..	60 0 0	27 7 6	..	112 1 9	..	..
(d) Plantations	..	1,634 15 11	7,689 7 2	7,938 10 7	5,358 12 1	3,644 5 1	2,956 0 2	806 13 9
(e) Protection from fire	..	240 0 0	1,885 2 10	632 0 11	1,542 6 6	784 10 3	..	158 5 8
(f) Other works	20 9 5	865 5 6	4,621 6 3	5,847 5 9	1,596 4 1	462 13 9	1,303 0 0	702 2 11
IX. Miscellaneous—								
(a) Refunds	..	40 0 0	649 9 0	46 4 0	500 11 5	57 12 0	..	1,262 14 2
(b) Law charges	..	..	45 2 0	..	489 6 0	..	..	20 6 0
(c) Other charges	628 7 7	39 7 3	14 9 6	65 1 6	207 13 11	..	2 0 0	34 4 7
Total, A.—Conservancy and Works ..	2,259 13 0	6,195 15 6	25,592 3 4	24,903 8 11	22,772 6 11	14,473 2 1	4,557 12 2	9,844 10 2

Summary of expenditure of the different districts, 1885-86—*continued.*

Budget heads.	Coimbatore (South).	Madura	Tinnevelly.	Malabar (Wynaad and Pálghat).	Malabar (Nilambór).	South Canara.	Total
	10	11	12	13	14	15	16
	RS A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS A. P.	RS. A. P.	RS. A P.
A.—*Conservancy and Works.*							
I. Timber and other produce removed from the forests by Government agency—							
(a) Timber	3,075 5 8	101 8 0	2,479 1 5	5,301 13 9	19,342 13 2	569 15 4	37,160 3 10
(b) Firewood and charcoal	347 0 0	522 15 1	..	1,009 14 0	..	..	8,840 10 7
(c) Bamboos	18 6 0	..	143 0 0	389 12 3	..	..	707 0 9
(d) Sandalwood	..	..	..	..	..	..	1,006 7 9
(e) Grass and other minor produce	1,497 13 5	50 0 0	62 0 7	291 13 0	..	8,180 2 1	10,962 5 1
II Timber and other produce removed from the forests by consumers or purchasers	3,707 15 7	4,408 7 8	4,206 4 11	233 7 3	..	3,323 4 0	43,152 7 7
III Confiscated drift and waifwood	81 8 1	264 1 0	30 5 0	..	2 12 0	3 8 8	504 5 6
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..
V. Rent of leased forests and payments to shareholders in forests managed by Government ..	..	..	..	..	3,062 13 10	..	3,062 13 10
VI. Live-stock, stores, tools and plant—							
(a) Purchase of cattle	..	170 0 0	..	418 0 0	1,077 9 6	..	1,830 9 6
(b) Feed and keep of cattle	89 12 8	226 15 7	..	2,898 1 8	1,881 13 8	..	5,223 5 1
(c) Stores, tools and plant	988 11 6	76 12 0	99 8 6	276 14 5	106 7 0	54 3 0	3,059 5 10
VII Communications and buildings—							
(a) Roads and bridges	2,225 14 8	225 2 2	2,250 10 6	264 4 0	3 0 0	..	6,987 14 6
(b) Buildings	3,043 13 8	612 13 4	523 14 6	5,926 3 4	207 10 0	370 6 8	14,070 8 11
(c) Other works	33 0 0	..	9 12 0	..	..	..	159 3 0
VIII. Demarcation, improvement and extension of forests—							
(a) Demarcation	1,763 0 8	179 14 0	787 1 0	332 10 6	..	774 8 7	9,727 12 5
(b) Compensation for land and rights ..	..	200 0 0	305 0 0	..	..	..	1,080 12 0
(c) Surveys and working plans	554 3 4	189 5 0	32 13 0	57 13 6	..	..	1,067 12 1
(d) Plantations	220 14 2	1,572 8 2	431 8 7	700 2 4	4,819 12 2	654 3 10	38,428 2 0
(e) Protection from fire	1,378 9 0	4,098 8 8	1,832 4 1	1,654 6 0	705 2 9	135 7 3	15,046 15 2
(f) Other works	1,099 4 9	230 0 0	3,651 5 5	2,155 13 10	171 8 0	332 6 6	23,059 6 2
IX Miscellaneous—							
(a) Refunds	10 4 0	246 12 4	1,012 9 5	30 11 3	450 4 5	1,288 4 1	5,296 0 1
(b) Law charges	10 0 0	107 0 0	..	650 14 0	5 0 0	..	1,327 12 0
(c) Other charges	106 7 5	17 5 3	173 9 10	858 6 3	..	90 7 1	2,238 0 2
Total, A.—Conservancy and Works ..	20,252 0 7	13,500 0 3	18,589 12 9	23,451 1 4	31,836 9 9	15,776 13 1	2,34,005 13 10

MADRAS,
1st July 1886.

(Signed) G. HOMFRAY,
Acting Examiner of Forest Accounts.

ANNUAL FORM No. 64.

Forest Department, Madras, Southern Circle.

SUMMARY of expenditure of the different districts, 1885-86.

Budget heads.	Direction.	Chingleput.	North Arcot.	South Arcot.	Salem.	Trichinopoly.	Tanjore.	Coimbatore (North).
1	2	3	4	5	6	7	8	9
B.—*Establishments.*	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
Brought forward—Total, A.—Conservancy and Works.	2,259 13 0	6,195 15 6	25,592 3 4	24,903 8 11	22,772 6 11	14,473 2 1	4,557 12 2	9,844 10 2
I. Salaries—								
(a) Conservators	16,250 0 0	..	..	..	..	..	..	..
(b) Superior officers	19,459 2 10	..	5,400 0 0	7,800 0 0	9,600 0 0	5,400 0 0	..	8,394 2 11
(c) Subordinate forest and depôt establishments.	2,766 0 0	4,374 0 8	9,288 13 4	9,470 9 7	11,807 14 9	4,374 1 7	1,742 4 11	5,422 9 9
(d) Office establishments	15,077 0 8	711 0 6	1,866 1 6	1,840 7 10	2,094 14 11	1,367 15 3	508 0 0	1,947 8 4
(e) Deputation and special allowances	350 9 9	..	..	..	..	1,390 5 1	..	..
II. Travelling allowances—								
(a) Conservators	3,421 13 10	..	..	..	..	..	..	..
(b) Superior officers	3,401 13 10	..	1,528 15 3	1,800 0 0	1,800 0 0	1,496 12 5	..	1,772 12 1
(c) Subordinate forest and depôt establishments.	866 0 8	969 11 4	2,458 0 8	1,322 7 10	3,219 1 3	1,438 15 0	272 7 4	1,694 0 5
(d) Office establishments	2,041 10 4	71 1 10	150 0 6	394 7 2	286 4 2	69 11 11	156 7 8	184 15 10
III. Contingencies—								
(a) Stationery	28 13 7	3 6 0	0 14 6	..	17 3 7	..	..	..
(b) Carriage of tents and records	885 7 6	51 14 1	85 14 1	86 15 11	314 0 10	29 6 0	59 12 0	131 3 6
(c) Rents, rates and taxes	933 6 2	..	..	420 0 0	8 6 5	180 0 0	..	48 0 0
(d) Pay of police guards	..	..	..	..	..	..	..	..
(e) Official postage	800 9 6	106 13 0	296 11 6	422 5 6	600 12 0	327 10 6	94 4 0	309 7 6
(f) Sundries	1,712 11 7	181 8 8	767 6 9	616 0 8	873 11 7	260 7 11	39 15 9	538 15 1
Total, B.—Establishments ..	67,995 4 3	6,469 8 1	21,842 14 1	24,173 6 6	30,622 5 6	16,275 5 8	2,873 3 8	20,443 11 5
Grand Total of expenditure ..	70,255 1 3	12,665 7 7	47,435 1 5	49,076 15 5	53,394 12 5	30,748 7 9	7,430 15 10	30,288 5 7

Budget heads.	Coimbatore, (South).	Madura.	Tinnevelly.	Wynaad and Pálghat.	Nilambúr.	South Canara.	Total.
	10	11	12	13	14	15	16
B.—*Establishments.*	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
Brought forward—Total, A.—Conservancy and Works.	20,252 0 7	13,500 0 3	18,589 12 9	23,451 1 4	31,836 9 9	15,776 13 1	2,34,005 13 10
I. Salaries—							
(a) Conservators	..	..	..	..	..	..	16,250 0 0
(b) Superior officers	5,538 11 4	7,091 10 8	4,338 11 4	7,464 8 3	5,400 0 0	3,738 11 5	89,625 10 9
(c) Subordinate forest and depôt establishments..	8,069 10 8	6,990 7 4	6,609 8 6	6,823 5 8	2,128 10 0	4,123 2 4	83,991 3 1
(d) Office establishments	1,900 8 7	1,404 4 11	1,830 15 1	2,502 6 5	1,101 8 2	1,336 10 9	35,489 8 11
(e) Deputation and special allowances	..	1,200 0 0	..	1,134 2 8	1,200 0 0	..	5,275 1 6
II. Travelling allowances—							
(a) Conservators	..	..	..	..	..	..	5,421 13 10
(b) Superior officers	1,506 10 10	2,098 1 0	1,440 0 0	1,749 15 3	1,648 8 9	1,440 0 0	21,683 9 5
(c) Subordinate forest and depôt establishments..	2,303 4 7	1,524 7 1	1,595 7 8	2,746 13 2	622 15 3	2,181 11 0	23,215 7 3
(d) Office establishment	263 3 5	389 14 9	449 5 10	548 0 8	76 14 0	168 9 0	5,250 11 1
III. Contingencies—							
(a) Stationery	3 12 0	..	0 2 0	2 10 0	..	0 9 0	57 6 8
(b) Carriage of tents and records	135 13 3	118 10 6	123 0 9	93 6 0	..	233 14 1	2,349 6 6
(c) Rents, rates and taxes	..	2 0 0	..	300 0 0	..	..	1,891 12 7
(d) Pay of police guards	..	..	..	..	..	..	..
(e) Official postage	225 2 6	360 11 6	378 2 6	252 1 0	59 0 0	476 6 0	4,710 1 0
(f) Sundries	431 2 5	315 11 3	639 14 0	570 7 2	105 1 9	403 7 1	7,396 9 8
Total, B.—Establishments ..	20,377 15 7	21,495 15 0	17,405 3 8	24,187 14 3	12,342 9 11	14,103 0 8	3,00,608 6 3
Grand Total of expenditure ..	40,630 0 2	34,995 11 5	35,995 0 5	47,638 15 7	44,179 3 8	29,879 13 9	5,34,614 4 1

MADRAS, 1st July 1886.

(Signed) G. HOMFRAY, Acting Examiner of Forest Accounts.

ANNUAL FORM No. 65.

Forest Department, Madras, Southern Circle.

Outstandings and liabilities on account of contractors and disbursers for 1885-86.

District.	Department debtor.			Department creditor.			Balance due.		Remarks.
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To department (outstandings).	By department (liabilities).	
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	
Conservator's office, Southern Division ..	..	6,551 5 9	6,551 5 9	..	6,703 12 5	6,703 12 5	152 6 8	..	
Three-fifths of the office of Examiner of Forest Accounts	..	2,311 10 3	2,311 10 3	..	2,358 1 6	2,358 1 6	46 7 3	..	
Forest Settlement office, Salem	..	..	..	..	..	..	..	..	
Do. do. Wynaad	..	..	..	..	..	..	..	..	
Do. do. Chingleput and Tinnevelly ..	..	..	..	..	..	..	..	..	
Chingleput	..	6,824 12 9	6,824 12 9	715 6 5	7,603 13 2	8,319 3 7	1,494 6 10	..	
North Arcot	..	9,378 13 7	9,378 13 7	304 5 8	9,482 13 7	9,787 3 3	408 5 8	..	
South Arcot	..	33,699 5 7	33,699 5 7	..	33,699 5 7	33,699 5 7	..	..	
Salem	..	34,294 11 4	34,294 11 4	1,519 6 6	34,175 2 6	35,694 9 0	1,399 13 8	..	
Trichinopoly	..	20,142 4 9	20,142 4 9	11 15 2	20,894 12 9	20,906 11 11	764 7 2	..	
Tanjore..	..	5,927 6 4	5,927 6 4	20 0 0	5,950 0 0	5,970 0 0	42 9 8	..	
Coimbatore (North)	..	18,843 9 6	18,843 9 6	1,875 14 5	19,906 7 5	21,782 5 10	2,938 12 4	..	
Do. (South)	..	29,119 11 10	29,119 11 10	1,838 12 7	28,925 8 1	30,764 4 8	1,644 8 10	..	
Madura	..	13,989 2 3	13,989 2 3	538 0 1	15,640 11 6	16,178 11 7	2,189 9 4	..	
Tinnevelly	..	15,089 0 7	15,089 0 7	758 11 9	15,448 0 8	16,206 12 5	1,117 11 10	..	
Wynaad and Pálghat	..	33,132 7 2	33,132 7 2	1,350 5 0	32,948 13 2	34,299 2 2	1,166 11 0	..	
Nilambúr	..	15,109 1 4	15,109 1 4	868 5 6	14,663 3 1	15,531 8 7	422 7 3	..	
South Canara	..	21,340 13 4	21,340 13 4	8,224 8 5	25,719 15 10	33,944 8 3	12,603 10 11	..	
Total ..	..	2,65,754 4 4	2,65,754 4 4	18,025 11 6	2,74,120 9 3	2,92,146 4 9	26,392 0 5	..	

MADRAS,
3rd July 1886.

(Signed) G. HOMFRAY,
Ag. Examiner of Forest Accounts.

ANNUAL FORM No. 66.

Forest Department, Madras, Southern Circle.

Revenue received and outstandings on account of revenue during 1885-86.

District.	Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realized during year.	Balance due to the department at end of year.
		RS A. P	RS. A. P	RS A. P	RS A. P	RS. A. P.
Chingleput	Timber and other produce, &c. ..	..	19,723 0 3	19,723 0 3	19,723 0 3	..
North Arcot ..	Do. ..	..	1,05,160 6 2	1,05,160 6 2	1,02,998 14 2	2,161 8 0
South Arcot ..	Do. ..	26 12 0	36,273 12 9	36,300 8 9	36,300 8 9	..
Salem	Do. ..	..	1,23,196 15 11	1,23,196 15 11	1,23,196 15 11	..
Trichinopoly ..	Do. ..	..	32,881 5 9	32,881 5 9	31,989 9 9	891 12 0
Tanjore	Do. ..	..	7,322 9 8	7,322 9 8	7,322 9 8	..
Madura	Do. ..	0 1 0	37,870 8 4	37,870 9 4	37,870 9 4	..
Tinnevelly	Do. ..	618 9 2	40,951 5 6	41,569 14 8	40,118 10 8	1,451 4 0
Coimbatore (North).	Do. ..	26,135 5 10	41,171 13 7	67,307 3 5	46,331 0 4	20,976 3 1
Coimbatore (South).	Do. ..	3,270 4 3	44,221 4 2	47,491 8 5	45,049 6 3	2,442 2 2
Wynaad and Pálghat	Do. ..	..	39,534 13 5	39,534 13 5	39,534 13 5	..
Nilambúr	Do. ..	..	86,518 1 9	86,518 1 9	81,140 2 11	5,377 14 10
South Canara ..	Do. ..	..	40,647 12 8	40,647 12 8	40,647 12 8	..
Direction	Do. ..	..	93 10 0	93 10 0	93 10 0	..
	Total ..	30,051 0 3	6,55,567 7 11	6,85,618 8 2	6,52,317 12 1	33,300 12 1

ANNUAL FORM No. 67.

Forest Department, Madras, Southern Circle.

Financial results of the year 1885-86.

District.	Timber and other produce removed from the forests by Government agency.		Other revenue.		Formation, protection and improvement of forests.	Total.	
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges
	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Direction	..	16,917	94	40,620	12,717	94	70,254
Chingleput	5,306	3,293	14,417	5,128	4,243	19,723	12,664
North Arcot	16,569	6,257	86,430	23,836	17,341	1,02,999	47,434
South Arcot	8,608	8,140	27,692	15,469	25,464	36,300	49,073
Salem	11,097	4,776	1,12,100	36,185	12,432	1,23,197	53,393
Trichinopoly	12,075	10,077	19,914	13,114	7,556	31,989	30,747
Tanjore	..	..	7,323	2,106	5,324	7,323	7,430
Coimbatore (North)	2,015	974	44,316	24,797	4,516	46,331	30,287
Coimbatore (South)	10,530	10,619	34,520	22,292	7,738	45,050	40,649
Madura	1,817	2,099	36,053	23,089	9,806	37,870	34,994
Tinnevelly	2,136	4,218	37,983	21,548	10,230	40,119	35,996
Malabar (Wynaad and Pálghat) ..	34,685	35,462	4,850	3,752	8,423	39,535	47,637
Malabar (Nilambúr)	80,147	37,471	993	151	6,556	81,140	44,178
South Canara	12,210	13,346	28,438	13,925	2,607	40,648	29,878
Total ..	1,97,195	1,53,649	4,55,123	2,46,012	1,34,953	6,52,318	5,34,614

Annual Form No. 68.

Forest Department, Madras, Southern Circle.

Trees felled by Government agency during the year 1885-86.

(Selection Fellings.)

District.	Range, forest or working circle.	Description of trees.	Number of trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Number.	Total.	Balance at end of the year.	Remarks.
			NO.	NO.	NO.		NO.	NO.	NO.	
Chingleput ..	Kámbákam hills ..	Tamba posts	..	1,600	1,600	Converted into logs ..	1,600	1,600	..	Outturn .. 50 tons.
	Maiyúr plantation ..	Casuarina wood	..	3,500	3,500	Do. do. ..	3,500	3,500	..	Do. .. 400 ,,
		Total ..	..	5,100	5,100	....	5,100	5,100	..	450
North Arcot ..	Chandragiri	Red wood	..	3	3	Converted into logs ..	3	3	..	Outturn .. 3 posts.
		Casuarina poles	..	22	22	Do. do. ..	22	22	..	Do. .. 22 poles.
		Total ..	..	25	25	....	25	25	..	25
South Arcot ..	No. I range—Tiruvannámalai, Chengam circle.	Namai	..	768	768	Converted into logs ..	768	768	..	Outturn .. 780 logs.
		Selai	..	67	67	Do. do. ..	67	67	..	Do. .. 93 ,,
		Véngai	..	154	154	Do. do. ..	154	154	..	Do. .. 177 ,,
		Kalimarutai	..	24	24	Do. do. ..	24	24	..	Do. .. 37 ,,
		Kalturinji	..	38	38	Do. do. ..	38	38	..	Do. .. 59 ,,
		Iruvadi	..	40	40	Do. do. ..	40	40	..	Do. .. 43 ,,
		Karungali	..	88	88	Do. do. ..	88	88	..	Do. .. 89 ,,
		Satin	..	15	15	Do. do. ..	15	15	..	Do. .. 20 ,,
		Nim	..	14	14	Do. do. ..	14	14	..	Do. .. 22 ,,
		Kadukoi	..	11	11	Do. do. ..	11	11	..	Do. .. 11 ,,
		Achá	..	2	2	Do. do. ..	2	2	..	Do. .. 2 ,,
			..	1,221	1,221	....	1,221	1,221	..	1,333
	No. I range—Tiruvannámalai, Chekkadi circle.	Parambai	..	29	29	Converted into logs ..	29	29	..	Outturn .. 27 logs.
		Karungáli	..	229	229	Do. do. ..	229	229	..	Do. .. 260 ,,
		Vémbu	..	12	12	Do. do. ..	12	12	..	Do. .. 23 ,,
		Namai	..	36	36	Do. do. ..	36	36	..	Do. .. 36 ,,
		Satin	..	2	2	Do. do. ..	2	2	..	Do. .. 4 ,,
		Selai	..	2	2	Do. do. ..	2	2	..	Do. .. 2 ,,
		Jalari	..	13	13	Do. do. ..	13	13	..	Do. .. 13 ,,
		Iruvadi	..	12	12	Do. do. ..	12	12	..	Do. .. 35 ,,
		Achá	..	1	1	Do. do. ..	1	1	..	Do. .. 4 ,,
		Kalimarudai	..	5	5	Do. do. ..	5	5	..	Do. .. 13 ,,
		Véngai	..	84	84	Do. do. ..	84	84	..	Do. .. 269 ,,
			..	425	425	....	425	425	..	686

Trees felled by Government agency during the year 1885-86—*continued.*

District.	Range, forest or working circle.	Description of trees.	Number of trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Number.	Total.	Balance at end of the year.	Remarks.
			NO	NO.	NO.		NO.	NO.	NO.	
South Arcot—*cont.*	No. I range—Tiruvannámalai.	Sandalwood	..	40	40	Converted into logs ..	40	40	..	Outturn .. 40 weighing 1,680 lb.
		Total ..	..	1,686	1,686	....	1,686	1,686	..	2,059
Salem	Salem—Tirupatúr, Dharmapuri and Hosúr.	Véngai	..	24	24	Converted into logs ..	24	24	..	Outturn .. 78½ c. ft.
		Junglewood	..	80	80	Do. do. ..	80	80	..	Do. .. 86⅔ "
		Miscellaneous timber ..	..	1,296	1,296	Do. do. ..	1,296	1,296	..	Do. .. 1,909 "
		Total ..	..	1,400	1,400	....	1,400	1,400	..	2,074½
		Bamboos	Not specified.							Outturn .. 1,680 lb.
		Sandalwood	Not specified.							Do. .. 9 tons, 2,199 lb.
Trichinopoly ..	Kulitalai	Casuarina	..	55	55	....	55	55	..	
		Véngai	..	1	1	....	1	1	..	
		Tamarind (dead)	..	1	1	....	1	1	..	
		Babul	..	28	28	....	28	28	..	
		Casuarina poles	..	195	195	....	195	195	..	
		Total ..	..	280	280	....	280	280	..	
Coimbatore (North).	Kollegál	Teak	..	9	9	Converted into logs ..	9	9	..	Outturn .. 4½ c. ft.
Coimbatore (South)	Tónakadavu	Teak	..	85	85	Converted into logs ..	85	85	..	Outturn .. 292 logs.
Madura	....	....	..	..	..	....	..	..	..	
Tinnevelly ..	Pápanásam hill ..	Palavadaithan	..	1	1	Each converted into six logs.	42	42	..	Utilized for specimens.
		Vedipila	..	1	1					
		Nangu	..	1	1					
		Venkongu	..	1	1					
		Shembugampatai	..	1	1					
		Vekkali	..	1	1					
		Vymarai	..	1	1					
		Total ..	..	7	7	....	42	42	..	

Trees felled by Government agency during the year 1885-86—*continued.*

District	Range, forest or working circle.	Description of trees.	Number of trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Number.	Total.	Balance at end of the year.	Remarks.
			NO.	NO.	NO.		NO.	NO.	NO.	
Malabar	Wynaad—Chedlet, Kudrakót and Padri.	Teak	..	1,396	1,396	Converted into logs ..	1,396	1,396	..	
		Blackwood	..	5	5	Do. do. ..	5	5	..	
		Véngai	..	14	14	Do. do. ..	14	14	..	
		Miscellaneous	..	8	8	Do. do. ..	8	8	..	
			..	1,423	1,423	....	1,423	1,423	..	
	Pálghat—Chenat Nair and Walluvanád forests.	Blackwood	..	1	1	....	1	1	..	
		Véngai	..	22	22	....	22	22	..	
		Irumbogam	..	1	1	....	1	1	..	
		Miscellaneous	..	86	86	....	86	86	..	
			..	110	110	....	110	110	..	
		Total ..	..	1,533	1,533	....	1,533	1,533	..	
Malabar (Nilamór).	Nellikutta	Teak	350	..	350	Converted into logs ..	301	350	..	Outturn .. 361 logs.
						Rejected	49			
		Blackwood	13	..	13	Converted into logs ..	13	13	..	Do. .. 16 „
		Véngai	120	..	120	Do. do. ..	112	120	..	Do. .. 112 „
						Rejected	8			
		Miscellaneous	538	..	538	Converted into logs ..	500	538	..	Do. .. 500 „
						Rejected	38			
										929
		Total ..	1,021	..	1,021	Converted into logs ..	926	1,021	..	
						Rejected	95			
	Panangód	Teak	..	223	223	....	..	223	..	Recently felled and not yet collected or measured up
		Blackwood	..	2	2	....	..	2	..	
		Miscellaneous	..	124	124	....	..	124	..	
			..	349	349	....	..	349	..	
		Total ..	1,021	349	1,370	Converted into logs ..	* 926	1,021	349	* Outturn .. 929 logs.
						Rejected	95			
South Canara ..	Cundapúr	Blackwood	..	17	17	Converted into logs ..	16	16	1	
		Benteak	..	1	1	Do. do. ..	1	1	..	
		Do.	..	49	49	Do. do. ..	46	46	3	

Trees felled by Government agency during the year 1885-86—*continued.*

District	Range, forest or working circle.	Description of trees.	Number of trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Number	Total.	Balance at end of the year.	Remarks.
			NO.	NO.	NO.		NO.	NO.	NO.	
South Canara—*continued.*	Cundapúr—*cont.*	Wild jack	..	3	3	Converted into logs	2	2	1	
		Banapu	..	86	86	Do. do.	86	86	..	
		Miscellaneous	..	74	74	Do. do.	74	74	..	
	Uppinangádi	Blackwood	..	54	54	Do. do.	37	37	17	
		Benteak	..	110	110	Do. do.	51	51	59	
		Banapu	..	196	196	Do. do.	167	167	29	
		Wild jack	..	3	3	Do. do.	..	..	3	
		Miscellaneous	..	114	114	Do. do.	73	73	41	
		Total	..	707	707	....	553	553	154	
	Grand Total	Teak	350	1,873	2,223	Converted into logs	2,112	2,112	62	
						Rejected	49	49		
		Rosewood	13	79	92	Converted into logs	74	74	18	
		Véngai	120	299	419	Do. do.	411	411	..	
						Rejected	8	8		
		Red sanders	..	3	3	Converted into logs	3	3	..	
		Miscellaneous timbers	538	8,887	9,425	Do. do.	9,313	9,313	74	
						Rejected	38	38		

ANNUAL FORM No. 69.

Forest Department, Madras, Southern Circle.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1885-86.

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet	How disposed of	Number.	Cubic feet.	Number.	Cubic feet.
Chingleput.	Satiyavédu	Red sanders roots ..	..	..	Tons. 153⅓	..	Tons. 153⅓	..	Sold	Tons. 153⅓	..	..	..
	Chingleput (Maiyúr)	Tamba posts ..	..	..	50	..	50	..	Do	50	..	..	..
		Casuarina wood ..	..	..	400	..	400	..	Do.	400	..	..	..
			..	..	603⅓	..	603⅓	..		603⅓	..	..	..
North Arcot.	Chandragiri ..	Redwood	..	..	121	4,840	121	4,840	Removed to sale depôt.	Tons. 121	4,840	..	..
		Do.	..	..	Posts. 3	..	Posts. 3		Sold	Posts. 3	..	..	..
		Do.	..	..	A heap of small.		..	..	Do.	..	..	..	..
		Tamarind fruits ..	..	..	Ton. 1	..	Ton. 1	..	Do.	Ton. 1	..	..	..
		Casuarina poles ..	..	..	No. 22	..	No. 22	..	Do.	No. 22	..	..	..
	Vellore ..	Sandal-wood ..	..	..	Tons. lb. 11 812	..	Tons. lb. 11 812	..	Removed to sale depôt	Tons. lb. 11 812	..	..	..
		Wood-apple ..	..	..	Certain quantity.				Sold	..	..	..	..
	Head-quarter.	Casuarina-wood ..	..	..	1,435 898	..	1,435 898	..	Removed to sale depôt.	224 525	..	Tons. lb. 443 1,120	..
									Sold to Madras Railway Company.	461 1,493			
									Supplied to Morison and Sons.	306 0			
		Casuarina branch wood	..	..	521 560	..	521 560	..	Supplied to Morison and Sons.	133 0	..	216 1,120	..
									Sold	171 1,680			
			..	..	1,956 1,458	..	1,956 1,458	..		1,296 1,458	..	660 0	..
		Casuarina plants ..	..	..	No. 4,500	..	No. 4,500	..	Sold	No. 4,500	..	..	..
		Do. seed ..	..	..	lb. 50	..	lb. 50	..	Do.	lb. 50	..	..	..

Statement of Timber and other Produce cut and collected by Government Agency during the year 1885-86.—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
South Arcot.	No. I Range..	Véngai	..	..	521	1,393	521	1,393	Sold	109	383	55	300
									Removed to Tiruvannámalai depôt	340	697		
									Removed to Tindivanam depôt.	2	4		
									Used by department.	15	9		
		Miscellaneous timbers.	1,104	2,224	1,553	4,691	2,657	6,915	Sold	1,401	3,470	..	..
									Removed to Tiruvannámalai depôt.	1,111	2,957		
									Removed to Tindivanam depôt	58	168	78	303
									Used by department	9	17		
	Other Ranges.	Miscellaneous timbers.	..	..	2	256	2	256	Sold	2	256		..
		Casuarina poles ..	..	..	1,090	1,733	1,090	1,733	Sold	1,090	1,733	..	..
		Total, Timbers ..	1,104	2,224	3,166	8,073	4,270	10,297	..	4,137	9,694	133	603
		Firewood.											
	All the Ranges.	Casuarina	..	..	Tons. 603	lb 1,127	Tons. 603	lb 1,127	Sold	Tons. 507	lb 2,191	Tons. 95	lb. 1,176
		Do. roots ..	..	..	12	973	12	973	Do.	12	973	..	..
		Bábúl	..	..	202	1,120	202	1,120	Do.	202	1,120	..	..
		Kandan	..	..	101	1,638	101	1,638	Do.	101	1,638	..	..
		Casuarina sticks ..	..	..	No. 1,054	..	No. 1,054	..	Do.	No. 1,054	..	..	..
		Total, Firewood ..	..	..	Tons. 920	378	Tons 920	378		Tons. 824	1,442	95	1,176
	Tiruvannámalai.	Sandalwood ..	..	..	Tons. †2	320½	Tons 2	320½	Sold	1	560	..	..
									Transferred to head-quarter office.	..	44		
									Transferred to No IV Range office.	..	26.		
									Transferred to Tiruvannámalai.	..	1,930½		
		Do. roots ..	..	..	† ..	56	..	56	Transferred to Tiruvannámalai.	..	56	..	..
		Total ..	..	..	2	376½	2	376½	..	2	376½	..	..

* The District Forest-officer showed an opening balance of 310 cubic feet of Véngai and 604 cubic feet of miscellaneous timbers which were omitted in the closing balance of 1884-85. The quantities have now been included in the collections of 1885-86, in order to make the opening balance correspond with the closing balance of 1884-85.

† The District Forest-officer showed this as the opening balance of the year, while the closing balance of 1884-85 was *nil* The quantity has therefore been treated as the collection of the year under report.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1885-86—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
					Tons.	lb.	Tons.	lb.		Tons.	lb.		
South Arcot—*continued*	All the Ranges	Gallnuts	..	..	2	420	2	420	Sold	2	420	..	..
		Honey	..	..	..	211⅜	..	211⅜	Do.	..	1	..	..
									Taken to Tiruvannámalai.	..	203⅜	..	..
									Taken to Head-quarter office.	..	7	..	..
		Nánal grass.. ..	..	..	3	..	3	..	Sold	3	..	..	..
		Belgam walnuts ..	..	..	..	4	..	4	Do.	..	4	..	..
		Tamarind fruits ..	..	..	..	330	..	330	Do.	..	330	..	..
		Velvélam bark ..	..	..	1	359½	1	359½	Do.	1	359½	..	..
			..	..	6	1,324$\frac{14}{15}$	6	1,324$\frac{14}{15}$	Do.	6	1,324$\frac{14}{15}$	..	..
					No.		No.			No.			
		Cocoanut leaves ..	..	..	400	..	400	..	Sold	400	..	..	..
		Silk cotton pods ..	..	..	10,550	..	10,550	..	Do.	10,550	..	..	..
					lb.		lb.			lb.			
		Fire sticks	..	..	224	..	224	..	Do.	224	..	..	..
					No.	C. ft.	No.	C. ft.		No.	C. ft.		
Salem.	Salem, Atúr, Námakal, Tiruchengód, Uttankarai, Tirupatúr, Krishnagiri, Dharmapuri and Hosúr.	Véngai	..	..	24	78½	24	78½	Removed to sale depôt.	24	78½	..	..
		Junglewood.. ..	..	..	80	86⅚	80	86⅚	Do. ..	80	86⅚	..	..
		Miscellaneous timbers	..	..	1,296	1,909	1,296	1,909	Do. ..	1,296	1,909	..	..
			..	..	1,400	2,074½	1,400	2,074½	....	1,400	2,074½	..	..
						lb.		lb.			lb.		
		Bamboos	..	..	..	1,680	..	1,680	Removed to sale depôt.	..	1,680	..	..
					Tons.	lb.	Tons.	lb.		Tons.	lb.		
		Sandalwood	..	..	9	2,199	9	2,199	Do. ..	9	2,199	..	..
		Honey	..	..	..	32	..	32	Do. ..	..	32	..	..

Statement of Timber and other Produce cut and collected by Government Agency during the year 1885-86—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
Trichinopoly.	Kalitalai and Udayárpálaiyam.				No.		No.			No.			
		Casuarina poles ..	..	..	195	..	195	..	Sold	195	..	..	..
		Do. trees ..	..	..	55	..	55	..	Do.	55	..	..	..
		Véngai	..	..	1	..	1	..	Do.	1	..	..	..
		Tamarind tree (dead)	..	..	1	..	1	..	Do.	1	..	..	..
		Bábúl trees	..	..	28	..	28	..	Sold to South Indian Railway Company.	28	..	..	..
			Tons.	lb.	Tons.	lb.	Tons.	lb.		Tons.	lb.	Tons.	lb.
		Firewood	401	2,182	3,205	551	3,607	493	Removed to Trichinopoly depôt.	285	531	138	1,995
									Removed to Tiruvádi depôt.	321	1,568		
									Kumbakónam ..	626	2,128		
									Sold to South Indian Railway.	1,735	1,887		
									Sold in retail ..	498	1,344		
	Musiri ..				No.		No.			No.			
		Bamboos	..	..	515	..	515	..	Sold	515	..	..	..
			Ton.	lb.	Tons.	lb.	Tons.	lb.		Ton.	lb.	Tons.	lb.
		Gallnuts	* 1	1,820	2	160	3	1,980	Sold	1	1,820	2	160
		Kapilapodi	* ..	35	...	..	..	35	Do.	..	35	..	..
			1	1,855	2	160	3	2,015	....	1	1,855	2	160
Coimbatore (North).	Kollegál ..	Teak..	..	..	9	40½	9	40½	Removed to sale depôt.	9	40½	..	..
		Do. saplings ..	..	..	26	..	26	..	Do. ..	26	..	..	..
		Miscellaneous timbers saplings.	..	..	6	..	6	..	Do. ..	6	..	..	..
	Satyamangalam.	Sandalwood ..	..	..	..	lb. 1,995	..	lb. 1,995	Do.	..	lb. 1,995	..	..

* Not shown in the closing balance of 1884-85, and the omission is stated by the District Forest-officer to be due to oversight.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1885-86—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of	Number.	Cubic feet.	Number.	Cubic feet.
Coimbatore (South).	Túnakadavu	Teak	..	..	292	1,1491	292	11,491	Removed to Wálayár depôt.	134	4,159	158	7,332
		Do.	..	..	..	298	..	298	Used departmentally.	..	298	..	..
		Jungle-wood ..	..	..	5	167	5	167	Removed to sale depôt.	5	167	..	..
		Do.	..	..	..	158	..	158	Used departmentally.	..	158	..	..
	Bólampatty..	Black-wood	2	67⅔	..	..	2	67⅔	Sold	2	67⅔	..	..
		Jungle-wood ..	2	113¼	..	..	2	113¼	Do.	2	113¼	..	..
	Shólakarai ..	Do.	..	..	771	..	771	..	Do.	771	..	..	..
		Teak posts	..	..	331	..	331	..	Do.	331	..	..	..
						Tons		Tons.			Tons		
		Fire-wood	..	..	..	471	..	471	Do.	..	471	..	..
		Bamboos	..	..	2,000	..	2,000	..	Do.	2,000	..	..	..
						lb.		lb.			lb.		
	Tunakadavu..	Cardamom	..	..	..	504	..	504	Do.	..	504	..	..
		Pepper	..	..	..	560	..	560	Do.	..	560	..	..
		Wax	..	..	..	364	..	364	Do.	..	364	..	..
		Deer horns	..	..	4	..	4	..	Do.	4	..	..	..
		Rattans	..	..	11,245	..	11,245	..	Do.	11,245	..	..	..
		Mattipál	..	..	..	$3\frac{9}{16}$	..	$3\frac{9}{16}$	Do.	..	$3\frac{9}{16}$	..	..
					Tons.	lb.	Tons	lb.		Tons.	lb.		
		Dammer	..	..	4	28	4	28	Do.	4	28	..	..
		Turmeric	..	..	..	588	..	588	Do.	..	588	..	..
Madura.	No. I Range—Vannáttipárai.. Pámbár ..	Véngai	..	..	..	120	..	120	Sold	..	120	..	..
		Do.	..	..	..	80	..	80	Do.	..	80	..	..
		Jungle-wood ..	..	..	..	91	..	91	Do.	..	91	..	..
					Tons	lb.	Tons	lb.		Tons	lb.		
	No. II Range—Kodaikánal.	Rafters	..	..	2	1,162	2	1,162	Removed to sale depôt.	2	1,162	..	..
		Fire-wood	..	..	215	1,105	215	1,105	Do.	213	1,105	..	..
									Sold	2	..	..	..
	No. V Range—Kadavúr ..	Do.	..	..	90	1,988	90	1,988	Do.	90	1,988	..	..
		Total ..	..	..	306	853	306	853	..	306	853	..	..

Statement of Timber and other Produce cut and collected by Government Agency during the Year 1885-86—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of	Number.	Cubic feet	Number.	Cubic feet.
Madura—*cont.*	Vanáttipárai..	Gallnuts	..	..	Tons. 3	lb. 48	Tons. 3	lb. 48	Sold...	Tons. 3	lb. 48	..	..
		Shiyakoi	..	..	..	480	..	480	Do.	..	480	..	..
		Cardamoms.. ..	..	..	..	9	..	9	Do.	..	9	..	..
		Total..	..	..	3	537	3	537	..	3	537	..	..
Tinnevelly	Pápanásam and Ambásamudram.	Miscellaneous ..	7	65	2,737	2,837	2,744	2902	Sold..	730	753	902	664
									Used for bridge-work	5	38		
									Removed to sale depôt.	1,107	1,447		
										1,842	2,238		
		Planks	..	..	204	278	204	278	Used for bridge-work	128	159	..	..
									Removed to depôt.	76	119		
										204	278		
		Spokes	..	..	Pieces. 2,220	231	Peces. 2,220	231	Sold..	Pieces. 2,136	223	pieces. 84	8
		Total..	7	65	5,161	3,346	5,168	3,411	..	4,182	2,739	986	672
		Bamboos	..	..	Ton. 1	lb. 1,120	Ton. 1	lb. 1,120	Sold	Ton. 1	lb. 1,120	..	..
		Tánikai	..	..	14	804	14	804	Taken to sale depôt..	14	804	..	..
		Seedlings	..	..	No. 1,505	..	No. 1,505	..	Sold..	No. 1,505	..	..	..
Malabar (Wynaad and Pálghat.	Wynaad, Chedleth, Kudrakót and Padri	Teak..	..	20,610	..	58,281	..	78,891	Sold..	..	47,870	..	30,730
									Used departmentally	..	291		
		Blackwood	..	1,142	..	5,051	..	6,193	Sold..	..	4,935	..	1,258
		Véngai	..	1,362	..	445	..	1,807	Do.	..	803	..	52
									Deficiency in measurement	..	952		
		Miscellaneous ..	..	542	..	264	..	806	Used departmentally and written off.	..	806	..	..
			..	23,656	..	64,041	..	87,697	..	..	55,657	..	32,040
	Pálghat, Wálayárreserved and Walawanád forests.	Blackwood.. ..	..	..	1	16	1	16	Sold..	1	16	..	..
		Vengai	2	147	35	665	37	812	Do.	35	665	2	147
		Irumbógam.. ..	..	..	5	255	5	255	Do.	5	255	..	..
		Miscellaneous ..	..	..	154	5,631	154	5,631	Do.	138	5,000	..	..
									Used departmentaly.	16	631		
			2	147	195	6,567	197	6,714	..	195	6,567	2	147

Statement of Timber and other Produce cut and collected by Government Agency during the Year 1885-86—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
Malabar, (Wynaad and Pálghat)—*cont.*	Pálghat, Wálayár reserved and Waawanád forests—*cont.*	Teak pieces ..	..	..	6,256	..	6,256	..	Sold	5,736	..	520	..
		Do. poles	..	..	1,876	..	1,876	..	Do.	1,526	..	350	..
					Tons.		Tons.			Tons.			
		Firewood	..	..	3,230	..	3,230	..	Do.	3,230	..	..	..
					No.		No.			No.		No.	
		Bamboos	..	..	23,067	..	23,067	..	Do.	3,090	..	19,977	..
			lb.		lb.		lb.			lb.		lb.	
	Wynaad, Chedleth, Kudrakôt and Padri.	Dammer	64	..	..	..	64	..	Used departmentally.	64	..	..	..
		Wax	51	..	63	..	114	..	Do. do.	59	..	55	..
		Honey	4	..	135	..	139	..	Sold	134	..	..	..
									Wastage	5			
		Cardamoms ..	..	..	304	..	304	..	Sold	304	..	..	..
					Nc.		No.			No.			
		Bamboos	..	..	13,390	..	13,390	..	Do.	13,390	..	..	..
Malabar (Nilambúr)	Nellikutta ..	Teak	..	..	301	12,774	301	12,774	Removed to sale depôt.	301	12,774	..	..
		Blackwood ..	..	..	16	663	16	663	Do. do.	16	663	..	..
		Véngai	...	..	112	6,968	112	6,968	Do. do.	112	6,968	..	..
		Miscellaneous ..	..	..	500	29,324	500	29,324	Do. do.	500	29,324	..	..
		Total ..	..	..	929	49,729	929	49,729		929	49,729	..	..
	Panangode ..	Teak	..	..	880	..	880	..	Removed to sale depôt.	880	.. *	..	..
		Black wood ..	..	..	38	..	38	..	Do. do.	38	.. *		
		Miscellaneous ..	..	..	1,672	..	1,672	..	Do. do.	1,672	.. *		
			..	..	2,590	..	2,590	..		2,590	..	..	..
		Teak saplings ..	† 9,243	..	51,504	..	60,747	..	Removed to sale depôt	53,641	..	7,106	..
					Tons lb.		Tons. lb.	..		Tons.	lb.		
		Firewood used for rafting rafts.	..	..	11 1,120	..	11 1,120	..	Do. do.	11	1,120	..	..
		Bamboos used for rafting rafts.	..	..	25,256	..	25,256	..	Do. do.	20,170	..	..	..
									Lost in transit ..	704			
									Damaged and rejected	2,018			
									Used for building and fencing.	1,932			
									Sold	432			

* These logs have not been measured up.

† This is the correct opening balance as per Examiner's account.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1885-86—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce	On hand at commencement of year		Collected during year		Total		Disposed of during year.			Balance at end of year.	
			Number	Cubic feet	Number.	Cubic feet.	Number.	Cubic feet	How disposed of.	Number	Cubic feet	Number.	Cubic feet.
South Canara.	Candapúr Uppinangádi and Udipi.	Blackwood	69	..	43	..	112	1,940	Delivered as being cut in kumaki	1	17	111	1,923
		Teak	4	74¼	92	483¾	96	558	Sold	87	359	8	179
									Removed to sale depôt.	1	20		
		Banapu	141	..	103	..	244	6,448	Sold	17	386½	227	6,061½
		Miscellaneous ..	136	..	183	..	319	9,214	Do	1	32¾	318	9,181¼
		Do	50	1,627	1	..	51	1,623¼	Reduction in measurement	..	98¼	51	1,525
		Blackwood	25	..	14	..	39	643	Removed to sale depôt.	2	22½	37	620½
		Wild jack	1	..	..	..	1	18¼	Do. do. ..	1	18¼	..	..
		Banapu	177	..	34	..	211	4,433	Do. do. ..	58	1,277	153	3,156
		Miscellaneous ..	87	..	53	..	140	3,480	Do. do. ..	41	1,051¼	99	2,428¾
		Teak poles	..	..	263	345	263	345	Sold	80	..	183	345
		Teak logs	..	..	8	..	8	..	Do.	8	..	..	..
		Jack	..	..	5	30	5	30	Do.	5	30	..	..
		Junglewood. ..	..	..	11	54¾	11	54¾	Do.	11	54¾	..	..
			690	1,701¼	810	912¾	1,500	28,787¼	..	313	3,367¼	1,187	25,420
		Firewood	..	..	Tons 32½		Tons 32½		Sold	Tons 32½		..	..
					Tons	lbs	Tons	lbs.		Tons.	lbs		
		Cinnamon flowers ..	..	..	16	1,353½	16	1,353½	Sold	16	1,353½	..	..
		Shiyakôi	..	..	9	1,618½	9	1,618½	Do.	9	1,618½	..	..
		Wax	..	..	..	1,089½	..	1,089½	Do.	..	1,089½	..	..
		Honey	..	..	2	179	2	179	Do.	2	179	..	..
		Myrabolams ..	..	..	4	345	4	345	Do.	4	345	..	..
		Pepper	..	..	..	503	..	503	Do	..	503	..	..
		Belaric Myrabolams	..	..	7	1,103	7	1,103	Do	7	1,103	..	..
		Deer horns	..	.		174	..	174	Do.	..	174	..	..
		Nux-vomica. ..	..	.	..	1,509	..	1,509	Do.	..	1,509	..	..
		Rampatri	..	.	..	132½	..	132½	Do.	..	132½	..	..
		Honne fruits ..	..	..	..	1,596	..	1,596	Do	..	1,596	..	..
		Ramgotu	..	..	..	368	..	368	Do.	..	368	..	..
		Dhup	..	.	..	14	..	14	Do.	..	14	..	..
		Myrabolams ..	..	..	45	..	45	..	Do.	45	..	..	..
			..	..	87	1,025	87	1,025	..	87	1,025	..	..

Statement of Timber and other Produce cut and collected by Government Agency during the Year 1885-86—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet
						Grand Total.							
		Teak..	..	20,684¼	..	83,713¼	..	104,397½	Sold	..	48,229	..	36,586
									Removed to sale depôt.		16,993½		
									Otherwise disposed of.	..	589		
		Rosewood	..	1,209⅔	..	5,730	..	6,939⅔	Sold	..	5,018⅔	..	1,258
									Removed to sale depôt.	..	663		
		Véngai	..	1,509	..	9,749⅓	..	11,258⅓	Sold	..	2,051	..	499
									Removed to sale depôt.	..	7,747⅓		
									Otherwise disposed of.	..	961		
						Tons.		Tons.			Tons.		
		Red sanders.. ..	..	..	..	274⅓	..	274⅓	Sold	..	153⅓	..	..
									Removed to sale depôt.	..	„ 121		
						C. ft.		C. ft.			C. ft.		
		Miscellaneous timber.	..	4,571⅔	..	71,586 1/12	..	76,157⅚	Sold	..	12,398	..	23,328
									Removed to sale depôt.	..	„ 38,525½		
									Otherwise disposed of.	..	„ 1,909 5/12		
					Tons.	lb.	Tons.	lb.		Ton.	lb.		
		Sandalwood ..	..	..	24	902½	24	902½	Sold	1	560	..	..
									Removed to sale depôt.	23	342½		
			Tons.	lb.								Tons.	lb.
		Fuel	401	2,182	10,133	1,000	10,535	942	Sold	5,321	854	894	931
									Removed to sale depôt.	1,683	257		
									Otherwise disposed of.	2,636	1,140		
					No.		No.			No.		No.	
		Bamboos	..	..	64,228	..	64,228	..	Sold	24,081	..	19,977	..
									Removed to depôt..	„ 20,170			
			Ton.	lb.	Tons.	lb.	Tons.	lb.		Tons.	lb.	Tons.	lbs
		Minor produce ..	1	1,974	68	854	70	588	Sold	53	1,439	2	215
									Removed to depôt..	14	1,046		
									Otherwise disposed of.	..	128		

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Forest Department, Madras,

Receipts and Issues of Timber and other Produce

District.	Range.	Name of depôt.	Description of timber and other produce.	On hand, 1st April 1885.		Received during the year.		
				Number or quantity.	Cubic feet.	Whence received.	Number or quantity.	Cubic feet.
Chingleput..		..	..					*Nil.*
North Arcot.		Mámandúr.	Redwood roots and stumps.	Tons. lb. 95 1,960	..	..	Tons. lb. 21 0	..
		Nagapatla.	Do. ..	..	..	..	100 0	..
			Total ..	95 1,960	..	..	121 0	..
		Vellore ..	Sandalwood ..	13 588	..	..	11 812	..
		..	Fuel	137 1,960	..	..	224 525	..
South Arcot.		Tiruvannámalai and Tindivanam depôts	Véngai	1	2	..	342	701
		..	Miscellaneous timber.	28	115	..	1,169	3,125
			Total ..	29	117	..	1,511	3,826
		Tiruvannámalai.	Sandalwood ..	..	..	Chengam ..	lb. 1,930½	..
			Do. roots..	..	..	Do. ..	56	..
		Cuddalore..	Sandalwood ..	lb. † 1,064	..	Do. ..	26	..
		Head-quarter's office.	Do. ..	..	..	Do. ..	44	..
		Tindivanam.	Do. ..	..	..	Transferred from Tiruvannamalai.	86	..
			Total ..	1,064	..	..	2,056½	..
		Trinomalai and head-quarter's office.	Honey	..	..	Forests ..	$210\frac{2}{5}$	..
			Wax	..	..	..	$29\frac{1}{8}$	..
				..	..	..	$239\frac{29}{40}$	..
Salem ..		..	Teak	72	$9\frac{1}{8}$	..	..	..
		..	Véngai	..	..	Forests ..	24	$78\frac{1}{8}$
		..	Junglewood ..	..	..	Do. ..	80	$86\frac{3}{8}$
		..	Miscellaneous timber.	88	238	Do. ..	1,296	1,909
			Total ..	160	$247\frac{1}{8}$	..	1,400	$2,074\frac{1}{8}$
		..	Bamboos	..	..	Forests ..	lb. 1,680	..
			Sandalwood ..	Tons. lb. 37 1,817	..	Forests ..	Tons. lb. 9 2,199	..
			Honey	..	..	Forests ..	lb. 32	..
Trichinopoly		Trichinopoly	Casuarina poles ..	No. 47	..	..	..	..

FORM No. 70.

Southern Circle.

in Sale Depôts, during the Year 1885-86.

Total.		Disposed of during the year.			Balance on 31st March 1886.		Remarks.
Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	
Tons. lb. 116 1,960	..	Sold	Tons. lb. 116 1,960	..	..	..	
100 0	..	Do.	100 0	..	..	..	
216 1,960	..	..	216 1,960	..	..	..	
* 24 1,400	..	Sold	12 2,156	..	Tons. lb. 11 812	..	* 672 lb. written off as wastage.
362 245	..	Sold .. .. Supplied to manufactory.	177 1,524 23 1,544	..	160 1,656	..	
343	703	Sold	343	703	..	..	
1,197	3,240	Do. .. .. Taken as specimen.	1,061 1	2,766 3	135	471	
1,540	3,943	..	1,405	3,469	135	471	
lb. 1,930½	..	Sold .. .. Transferred to Tindivanam depôt.	lb. 1,039½ 86	..	lb. 805	..	
56	..	..	..	..	56	..	
1,090	..	Sold	217	..	873	..	† The closing balance of 1884-85 was 1 ton and 1,624 lb.
44	..	..	..	..	44	..	
86	..	Do.	86	..	..	..	
3,120½	..	..	1,342½	..	1,778	..	
lb. 210⅗	..	Sold	171⅗	..	39	..	
29⅕	..	Do.	29⅕	..	..	..	
239 29/40	..	..	200 38/40	..	39	..	
72	9⅛	Sold	72	9⅛	..	..	
24	78⅛	..	..	..	24	78⅛	
80	86⅝	Supplied to Remount depôt.	80	86⅝	..	..	
1,384	2,147	Do. .. Sold	1,149 126	1,591 232	109	324	
1,560	2,321⅛	..	1,427	1,919	133	402⅛	
lb. 1,680	..	Supplied to Remount depôt.	lb. 1,680	..	..	..	
Tons. lb. 47 1,776	..	Sold	Tons. lb. 45 1,479	..	Tons. lb. 2 297	..	
lb. 32	..	Sold	lb. 32	..	..	..	
No. 47	..	Sold	No. 18	..	No. 29	..	

Receipts and Issues of Timber and other Produce

District.	Range.	Name of depôt.	Description of timber and other produce.	On hand, 1st April 1885. Number or quantity.	On hand, 1st April 1885. Cubic feet.	Received during the year. Whence received.	Received during the year. Number or quantity.	Received during the year. Cubic feet.
				Tons. lb.			Tons. lb.	
Trichinopoly—*contd.*		Trichinopoly	Firewood ..	11 2,157	..	Forests ..	285 531	..
		Tiruvádi ..	Do.	* 10 896	..	Do. ..	321 1,568	..
		Kumbakónam.	Do.	† 11 896	..	Do. ..	626 2,138	..
			Total ..	33 1,709	..	..	1,233 1,987	..
Coimbatore (North).		Kollegál ..	Teak	..	..	Forests ..	9	40½
		..	Teak saplings ..	..	..	Do. ..	26	..
		..	Miscellaneous saplings.	..	..	Do. ..	6	..
		..	Sandalwood ..	..	..	..	lb 1,995	..
Coimbatore (South).		Coimbatore.	Teakwood ..	481	9,916	Vellarágu Adivaram depôt.	53	1,709 8/12
			Rosewood ..	93	1,696	Ánaimalai depôt.	20	385
			Junglewood ..	1	28	Pollâchi ..	5	167
		Anaimalai.	Rosewood ..	287	4,454	..	..	..
		Vellaragu Ádivâram.	Teakwood ..	..	..	Forests ..	134	4,159
			Total ..	862	16,094	..	159	4,711
Madura ..		Kodaikánal depôt.	Rafters	..	..	Forests ..	Tons. lb. 2 1,162	..
			Firewood	Tons lb. 131 1,085	..	..	213 1,105	..
Tinnevelly ..		Pápanásam.	Miscellaneous ..	337	357	Forests ..	§ 1,128	§ 1,454
			Planks	9	27	Do. ..	76	119
			Total ..	346	384	..	1,204	1,573
			Tánikói	Tons. lb. 11 358	..	Forests ..	Tons. lb. 14 804	..
Malabar (Wynaad and Pálghat).		..	..					*Nil.*
Malabar (Nilambúr).		Nellikutta	Teak	..	..	Forests ..	301	12,774
			Blackwood ..	..	..	..	16	663
			Véngai	..	..	..	112	6,968
			Miscellaneous ..	..	..	..	500	29,324
			Total ..	..	..	..	929	49,729

in Sale Depôts, during the Year 1885-86—*continued.*

Total.		Disposed of during the year.			Balance on 31st March 1886.		Remarks.
Number or quantity.	Cubic feet	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet	
Tons. lb.			Tons. lb.		Tons. lb.		
297 448	..	Sold	297 448	..	..	..	
332 224	..	Do.	277 1,991	..	54 473	..	*The closing balance of 1884-85 was 6 tons and 54 lb.
638 784	..	Do.	614 1,456	..	23 1,568	..	†The closing balance of 1884-85 was 10 tons and 94½ lb.
1,267 1,456	..	..	1,189 1,655	..	77 2,041	..	
9	40½	..	..	..	9	40½	
..	26	..	..	..	26	..	
..	6	..	..	..	6	..	
lb. 1,995	..	..	..	..	lb. 1,995	..	
534	11,626	Sold	226	‡ 5,112	308	6,514	‡ Exclusive of the 141 cubic feet of confiscated teak included by the District Forest Officer.
113	2,081	Do.	88	1,533	25	548	
6	195	Do.	3	117	3	78	NOTE.—The closing balance of 1884-85 under teak, rosewood and junglewood were erroneously repeated in the statement of that year. The opening balances now shown are correct.
287	4,454	Transfered to Coimbatore depôt.	20	385	247	3,793	
		Sold	20	217			
		Deduction in measurement.	..	59			
134	4,159	Sent to Coimbatore depôt.	53	1,709	81	2,450	
1,021	20,421	..	357	7,038	664	13,383	
Tons. lb.			Tons. lb.		Tons. lb.		
2 1,162	..	Sold	2 1,162	..	..	..	
344 2,190	..	Do.	216 827	..	106 1,143	..	
		Written off ..	22 220				
1,465	1,811	Sold	697	747	436	998	§ Of this 7 cubic feet (No. 21) of Nanja Erkals are shown as having been received into depôt but do not appear in Form No. 69.
		Used departmentally.	332	66			
85	146	Sold	16	34	69	112	
1,550	1,957	..	1,045	847	505	1,110	
Tons. lb.			Tons. lb.		Tons. lb.		
25 1,162	..	Shipped to London.	24 1,120	..	0 ‖ 687	..	‖ The balance ought to be 1,039 lb.
		Wastage ..	0 1,243				
301	12,774	Sold	301	12,744	..	..	
16	663	Do.	16	663	..	..	
112	6,968	Do.	112	6,968	..	..	
500	29,324	Do.	500	29,324	..	..	
929	49,729	..	929	49,729	..	..	

Receipts and Issues of Timber and other Produce

District.	Range.	Name of depôt.	Description of timber and other produce.	On hand, 1st April 1885		Received during the year.		
				Number or quantity	Cubic feet.	Whence received.	Number or quantity.	Cubic feet.
Malabar (Nilambúr) —*contd.*		Panangód.	Teak	..	..	Forests ..	880	..
			Blackwood ..	..	..	..	38	..
			Miscellaneous ..	..	..	..	1,672	..
			Total ..	..	..	..	2,590	..
			Teak saplings ..	839	..	..	53,641	..
			Firewood or unstamped Karyas.	..	..	..	Tons. lb. 11 0	..
			....	..	..	From branch sapling stock at Kallai.	0 1,120	..
			Bamboos ..	105	..	From sapling raft.	20,170	..
South Canara.		Mangalore.	Teak	32	646¼	Forest.	1	20
			Blackwood ..	1	13	..	2	22½
			Jack	6	85½	..	..	..
			Wild jack ..	5	116¼	..	1	18¼
			Banapu	6	69¼	..	58	1,277
			Miscellaneous ..	21	323	..	41	1,051¼
			Total ..	71	1,253¾	..	103	2,389
Grand Total.			Teak	..	10,572 6/12	..	..	16,993½
			Rosewood ..	..	6,163	..	..	685½
			Véngai	..	2	..	..	7,747½
			Miscellaneous timbers.	..	1,359½	..	..	38,531½
			Red sanders ..	Tons. 95	lb. 1,960	..	Tons. lb. 121 0	..
			Sandalwood ..	51	1,229	..	23 342½	..
			Fuel	303	274	..	1,683 257	..
			Bamboos	..	..	..	0 1,680	..
			Do.	No. 105	..	..	No. 20,170	..
			Minor produce ..	Tons. lb. 11 358	..	..	Tons. lb. 14 1,075 29/48	..
			Teak saplings ..	No. 839	..	..	No. 53,641	..

in Sale Depôts, during the Year 1885-86—*continued.*

Total.		Disposed of during the year.			Balance on 31st March 1886.		Remarks.
Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	
880	..	..	..	..	880	..	
38	..	..	..	..	38	..	
1,672	..	..	..	..	1,672	..	
2,590	..	..	..	..	2,590	..	
54,480	..	Sold	54,080	..	119	..	
		Rejected ..	281				
Tons. lb.			Tons. lb.				
11 1,120	..	Sold	11 1,120	..	..	..	
20,275	..	Sold	20,110	..	..	..	
		Used departmentally.	165				
33	666¼	..	..	..	33	666¼	
3	35½	..	..	..	3	35½	
6	85½	Sold	4	62	2	23½	
6	135	Do.	4	109	2	26	
64	1,346¼	Do.	45	1,024¼	19	322	
62	1,374¼	Do.	10	188½	52	1,185¾	
174	3,642¾	..	63	1,383¾	111	2,259	
..	27,565 11/12	Sold	..	17,895⅙	..	9,670¾	
..	6,848½	Do.	..	2,413	..	4,376½	
		Otherwise disposed of.	..	59			
..	7,749½	Sold	..	7,671	..	78½	
..	39,890⅚	Do.	..	34,603⅚	..	3,540¼	
		Otherwise disposed of.	..	1,746⅚			
Tons. lb.			Tons. lb.				
216 1,960	..	Sold	216 1,960	..	..	..	
					Tons. lb.		
74 1,571½	..	Do.	59 497½	..	15 402	..	
		Otherwise disposed of.	0 672				
1,986 531	..	Sold	1,595 646	..	345 361	..	
		Otherwise disposed of.	45 1,764				
0 1,680	..	Otherwise disposed of.	0 1,680	..	..	..	
No.			No.				
20,275	..	Sold	20,110	..	..	..	
		Otherwise disposed of.	165				
Tons. lb.			Tons. lb.		Tons. lb.		
25 1,433 28/45	..	Sold	0 232 28/45	..	0 726*	..	
		Otherwise disposed of.	25 475				
No.			No.		No.		
54,480	..	Sold	54,080	..	119	..	
		Otherwise disposed of.	281				

* For this difference please see note opposite to Tinnevelly.

Annual Form No. 71.

Forest Department, Madras, Southern Circle.

Sales of Timber and other Produce cut and collected by Government Agency during the Year 1885-86.

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from forests.			RS. A. P.	RS. A. P.	RS. A. P.			
Chingleput	..	Kámbákam hill.	I (a)	Red sanders roots ..	Tons 153½	..	Rs. 15 per ton.	2,300 0 0	2,300 0 0	..	..	
	..	Do. ..	Do.	Tamba posts ..	„ 50	..	„ 20 „	1,000 0 0	1,000 0 0	..	..	
	..	Maiyúr plantation.	Do.	Casuarina wood ..	„ 400	..	4 6 0	1,750 0 0	1,750 0 0	..	..	
			..	Amount realized on other casuarina trees.	..	..	..	247 10 7	247 10 7	..	..	
				Total ..	Tons 603½	..	..	5,297 10 7	5,297 10 7	..	..	
	..	..	I (b)	Firewood	..	..	..	2 13 6	2 13 6	..	..	
	..	..	III	Confiscated drift and waifwood.	..	..	..	17 10 8	17 10 8	..	..	
				Total of the District.	..	..	..	5,318 2 9	5,318 2 9	..	..	
				Sold from depôt.								
North Arcot.	..	Mámandúr ..	I (a)	Redwood roots and stumps.	Tons 116	lb. 1,960	Rs. 15 per ton.	1,753 2 0	1,753 2 0	..	..	
	..	Nágapatla ..	Do.	Do. do. ..	„ 100	..	„ 14 „	1,400 0 0	1,400 0 0	..	..	
				Sold from forests.								
	..	Napier reserve.	I (a)	Redwood posts ..	No. 3	..	„ 2 „	6 0 0	6 0 0	..	..	
	..	Champalli forests.	Do.	Redwood pieces ..	A heap.	..	..	80 0 0	80 0 0	..	..	
				Total ..	Tons 216 No. 3	lb. 1,960	..	3,239 2 0	3,239 2 0	..	..	
				Sold from depôt.								
	..	Vellore ..	I (b)	Fuel	Tons 201	lb. 628	..	1,522 7 3	1,522 7 3	..	..	
				Sold from forests.								
	..	Vanivédu plantation.	I (b)	Fuel		Whole plantation.		3,940 0 0	3,940 0 0	..	..	
	..	Tiruvallam plant	Do.	Casuarina wood ..	Tons 306	..	5 8 0	1,683 0 0	..	..	..	
			Do.	Do. branch do.	„ 133	..	3 0 0	399 0 0	..	..	..	
			Do.	Do. do. ..	„ 5	..	2 0 0	10 0 0	10 0 0	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the Year 1885-86—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c. removed.	Number sold but remaining unremoved.	Remarks.
				Sold from forests—contd.			RS. A. P.	RS. A. P.	RS. A. P.			
North Arcot—*continued*	..	Kilminnel plantation.	I (*b*)	Casuarina branch wood.	Tons 59	lb. 560	2 0 0	118 8 0	118 8 0	..	..	
			Do.	Casuarina wood ..	,, 2	,, 1,120	3 0 0	7 8 0	7 8 0	..	..	
			Do.	Do. do. ..	,, 461	,, 1,493	6 0 0	2,770 0 0	2,770 0 0	..	..	
			Do.	Do. do. ..	,, 1	,, 1,120	2 10 8	4 0 0	4 0 0	..	..	
			Do.	Do. do. ..	,, 2	,, 1,120	2 0 0	5 0 0	5 0 0	..	..	
			Do.	Do. do. ..	,, 9	..	3 10 8	33 0 0	33 0 0	..	..	
	..	Virinjipuram.	Do.	Casuarina branch wood.	,, 64	lb. 1,120	2 8 0	161 4 0	161 4 0	..	..	
			Do.	Do. do. ..	,, 7	,, 1,120	3 0 0	22 8 0	22 8 0	..	..	
			Do.	Do. do. ..	,, 20	..	2 8 0	50 0 0	50 0 0	..	..	
					Tons 1,073	lb. 1,581	..	10,726 3 3	8,644 3 3	..	..	
	..	Bolampatti tope.	Do.	Casuarina poles ..	No. 20	..	2 0 0	40 0 0	40 0 0	..	..	
			Do.	Do. do. ..	,, 2	..	3 0 0	6 0 0	6 0 0	..	..	
				Total ..	Tons 1,073 No. 22	lb. 1,581	..	10,772 0 0	8,690 3 3	..	..	
				Sold from depôt.								
	..	Vellore sandalwood depôt.	I (*d*)	Sandalwood ..	Tons 12	lb. 2,156	Rs. 337 8 0 per ton.	4,478 3 3	4,478 3 3	..	..	
				Sold from forests.								
	..	Kilminnel plantation.	I (*e*)	Plants	No. 4,500	..	Rs. 5 per 1,000	22 8 0	22 8 0	..	..	
			Do.	Seed	..	lb. 50	Re. 1 per lb.	* 56 8 0	56 8 0	..	..	* Includes Rs. 6-8-0 being cart-hire, &c
	..	Chandragiri range.	Do.	Tamarind	Ton 1	..	..	9 2 11	9 2 11	..	..	
	..	Attiyúr tope, Vellore range.	Do.	Woodapple ..		Certain quantity.		5 0 0	5 0 0	..	..	
			Do.	Cost of seed (*Pterocarpus Santalinus*) supplied to Singapore.	..	..	..	1 2 0	1 2 0	..	..	
				Total ..	Ton 1 No. 4,500	lb. 50	..	94 4 11	94 4 11	..	..	
	..	..	III	Confiscated drift and waifwood.	..	..	..	337 1 3	337 1 3	..	..	
				Total of the District.	..	..	..	19,620 14 8	16,838 14 8	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the Year 1885-86—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from depôt.			RS. A. P.	RS. A. P.	RS. A. P.			
South Arcot.	..	Tiruvannámalai and Tindivanam.	I (a)	Véngai	No. 343	C. ft. 703	0 15 0 0 13 0 0 12 7	628 13 6	628 13 6	..	..	
			..	Miscellaneous timbers.	,, 1,061	,, 2,763	..	1,810 1 10	1,810 1 10	..	..	
				Sold from forests.								
			..	Véngai	No. 109	C. ft. 383	0 13 6 0 11 6 0 8 0	206 0 11	206 0 11	..	..	
			..	Miscellaneous timbers.	,, 1,401	,, 3,470	..	1,310 0 8	1,310 0 8	..	..	
	..	Other ranges .	..	Do. do. ..	,, 2	,, 256	..	57 0 0	57 0 0	..	..	
			..	Casuarina poles ..	,, 1,090	,, 1,733	..	849 11 11	849 11 11	..	..	
				Total ..	No. 4,006	C. ft. 9,308	..	4,861 12 10	4,861 12 10	..	..	
	..	All the ranges.	I (b)	Casuarina fuel ..	Tons 722	lb. 2,044	..	2,729 1 4	2,729 1 4	..	..	
			..	Kandán firewood ..	,, 101	,, 1,638	..	164 12 6	164 12 6	..	..	
				Total ..	Tons 824	lb. 1,442	..	2,893 13 10	2,893 13 10	..	..	
				Sold from depôt.								
	..	Tiruvannámalai, Tindivanam and Cuddalore.	I (d)	Sandalwood ..	..	lb. 1,342½	5 0 0 4 8 0 4 2 8 3 0 0	164 4 9	164 4 9	..	..	
				Sold from forests.								
			...	Sandalwood ..	Ton 1	lb. 560	3 0 0	300 0 0	300 0 0	..	..	
				Total ..	Ton 1	lb. 1,902	..	464 4 9	464 4 9	..	..	
				Sold from depôt.								
	..	All the ranges.	I (e)	Honey	..	lb. 171¾	..	21 1 9	21 1 9	..	..	
			..	Wax	..	,, 29¼	..	10 3 0	10 3 0	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the Year 1885-86—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from Forests.			RS. A. P.	RS. A. P.	RS. A. P.			
South Arcot — *contd.*	..	..	..	Gallnuts	Tons 2	lb. 420	Rs. 53⅓ per ton.	116 10 8	116 10 8	..	..	
	..	..	..	Honey	..	,, 1	..	0 2 8	0 2 8	..	..	
	..	..	..	Nánal grass ..	Tons 3	..	2 0 0	6 0 0	6 0 0	..	..	
	..	..	..	Belgam walnuts ..	..	lb. 4	0 6 0	1 8 0	1 8 0	..	..	
	..	..	..	Tamarind fruit ..	..	,, 330	..	5 9 5	5 9 5	..	..	
	..	..	..	Velvélam bark ..	Ton 1	359½	..	19 4 0	19 4 0	..	..	
	..	..	..	Cocoa leaves ..	No. 400	..	10 As. per 100	2 8 0	2 8 0	..	..	
	..	..	..	Silk cotton pods ..	,, 10,550	..	..	23 13 2	23 13 2	..	..	
	..	..	..	Fire sticks	...	lb. 224	..	1 0 0	1 0 0	..	..	
	..	..	..	Amount realized from casuarina seed supplied to Kharwar.	..	..	..	1 8 0	1 8 0	..	..	
	..	..	..	Amount realized fr m casuarina seed supplied to Singapore.	..	..	..	5 14 0	5 14 0	..	..	
	..	..	..	Particulars not given.	..	..	..	26 12 0	26 12 0	..	..	
				Total ..	Tons 6 No. 14,550	lb. 1,739 7/120	..	241 14 8	241 14 8	..	..	
	..	..	III	Confiscated drift and waifwood.	..	..	..	438 13 9	438 13 9	..	..	
				Total of the District.	..	..	..	8,900 11 10	8,900 11 10	..	..	
				Sold from depôt.								
Salem ..	..	..	I (*a*)	Teak	No. 72	C. ft. 9¼	1 4 4	11 10 5	11 10 5	..	..	
	..	..	..	Junglewood ..	,, 80	,, 86¾	0 11 0	59 11 1	59 11 1	..	..	
	..	..	..	Miscellaneous timbers.	,, 1,275	1,823	..	1,499 8 2	1,499 8 2	..	..	
				Total ..	No. 1,427	C. ft. 1,919	..	1,570 13 8	1,570 13 8	..	..	
	..	..	I (*e*)	Bamboos	..	lb. 1,680	0 0 10	86 6 0	86 6 0	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the Year 1885-86—*continued.*

District.	Range.	Depôt or localtiy.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from depôt—cont.			RS. A. P.	RS. A. P.	RS. A. P.			
	..	..	I (*d*)	Sandalwood ..	Tons 45	lb. 1,479	..	9,329 10 11	9,329 10 11	..	..	
	..	..	I (*e*)	Honey	..	„ 32	..	13 2 0	13 2 0	..	..	
	..	..	III	Confiscated drift and waifwood.	..	..	..	974 6 1	974 6 1	..	..	
				Total of the District.	..	..	..	11,974 6 8	11,974 6 8	..	..	
				Sold from forests.								
	..	..	I (*a*)	Véngai	..	C. ft. 1	..	11 8 0	11 8 0	..	..	
	..	..	..	Casuarina poles and posts.	..	„ 250	..	359 4 0	359 4 0	..	..	
	..	..	..	Miscellaneous timbers.	..	„ 29	..	38 8 0	38 8 0	..	..	
				Sold from depôt.								
	..	..	..	Miscellaneous timbers.	..	C. ft. 18	..	2 6 0	2 6 0	..	..	
				Total ..	..	C. ft. 298	..	411 10 0	411 10 0	..	..	
Trichinopoly.	Kulitalai and Udayárpálaiyam.	Trichinopoly ..	I (*b*)	Firewood	Tons 297	lb. 448	..	743 12 0	743 12 0	..	..	
		Tiruvadi ..	..	Do.	„ 277	„ 1,991	..	964 5 0	964 5 0	..	..	
		Kumbakónam..	..	Do.	„ 614	„ 1,456	..	2,525 8 6	2,525 8 6	..	..	
				Sold from forests.								
			..	Firewood	Tons 2,236	lb. 991	..	7,771 4 6	7,210 9 6	..	..	
				Total ..	Tons 3,424	lb. 406	..	12,004 14 0	11,443 10 0	..	..	
	..	Kulitalai and Lálápet.	I (*c*)	Bamboos	No. 515	..	..	77 8 0	77 8 0	..	..	
			I (*e*)	Gallnuts	Ton 1	lb. 1,820	67 9 4 per ton.	122 8 0	122 8 0	..	..	
			..	Kapilapodi	..	„ 35	0 4 $14\frac{2}{35}$ per lb	9 0 0	9 0 0	..	..	
				Total ..	Ton 1	lb. 1,855	..	131 8 0	131 8 0	..	..	

Sales of Timber and other Prodce cut and collected by Government Agency during the Year 1885-86—*continued.*

District	Range	Depôt or locality	Budget sub-head.	Description of timber and other produce.	Number or quantity	Cubic feet	Rate.	Total amount of sale	Amount actually paid	Number of logs and pieces, &c, removed	Number sold but remaining unremoved	Remarks
							RS A P.	RS A P.	RS. A P.			
Trichinopoly—*contd*	..	..	III	Confiscated drift and waifwood.	..	..	..	32 3 2	32 3 2	..	..	
				Total of the District.	..	..	..	12,657 11 2	12,096 7 2	..	..	
Tanjore ..	..	..	III	Confiscated drift and waifwood.	..	..	..	9 13 9	9 13 9	..	..	
Coimbatore (North)	..	..	I (*d*)	Sandalwood ..	..	..	..	* 2,000 0 0	2,000 0 0	..	..	* This represents the payment of 1884-85 not credited during that year by mistake, *vide* remark in the statement appended to report for 1884-85.
	..	..	III	Confiscated drift and waifwood.	..	..	..	309 6 1	309 6 1	..	..	
				Total of the Division.	..	..	..	2,309 6 1	2,309 6 1	..	..	
Coimbatore (South)				*Sold from depôt.*								
		Coimbatore depôt.	I (*a*)	Teak	No. 226	C ft. 5,112	..	5,275 2 10	5,275 2 10	..	..	
				Sold from forests								
	Túnakadavu		..	Teak used departmentally	..	298	0 8 0	149 0 0	149 0 0	..	..	
	Shólakarai		..	Teak posts . ..	..	331	..	400 0 0	400 0 0	..	..	
			..	Junglewood ..	..	771						
				Sold from depôt								
		Coimbatore depôt	..	Rosewood	88	1,533	..	1,108 10 2	1,108 10 2	..	..	
		Anaimalai depôt.	..	Do	20	217	..	214 2 9	214 2 9	..	..	
		Coimbatore depôt.	..	Junglewood ..	3	117	1 4 0	145 15 9	145 15 9	..	..	
		Anamalai and Vallaragu depôts.	..	Do	* 3	48	..	19 11 0	19 11 0	..	..	* Not shown in Form No. 70.
				Sold from forests								
	Bólampatti		..	Junglewood ..	2	113¾	3 0 0	25 4 10	25 4 10	..	..	
			..	Blackwood	2	67¾	6 0 0 per candy	26 6 8	26 6 8	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the Year 1885-86—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved	Remarks.
				Sold from forests— contd.			RS. A. P.	RS. A. P.	RS. A. P.			
	Túnakadavu.	..	..	Junglewood ..	..	158	..	22 12 6	22 12 6	..	..	
	..	..	..	Value of old pieces of wood not known.	..	..	..	0 6 0	0 6 0	..	..	
				Total ..	No. 344	C. ft. 8,766 5/12	..	7,387 8 6	7,387 8 6	..	..	
	Shólakarai.	..	I (*b*)	Firewood	Tons 471	..	..	720 0 0	720 0 0	..	..	
	Do.	..	I (*c*)	Bamboos	No. 2,000	..	..	40 0 0	40 0 0	..	..	
	..	..	..	Thorns, &c. ..	..	..	..	5 0 0	5 0 0	..	..	
	..	..	..	Value of old pieces of bamboos.	..	..	..	1 3 0	1 3 0	..	..	
				Total ..	No. 2,000	..	..	46 3 0	46 3 0	..	..	
Coimbatore South — *contd.*	Tunakadavu.	..	I (*e*)	Cardamoms	..	lb. 504	..	577 6 0	577 6 0	..	..	
	..	..	..	Pepper	..	" 560	..	160 0 0	160 0 0	..	..	
	..	..	..	Wax	..	" 364	..	125 0 3	125 0 3	..	..	
	..	..	..	Mattippál	..	3 9/10	..	59 8 0	59 8 0	..	..	
	..	..	..	Dammer	Tons 4	" 28	..	827 1 2	827 1 2	..	..	
	..	..	..	Turmeric	..	" 588	..	24 0 9	24 0 9	..	..	
	..	..	..	Deer horns	No. 4	..	..	15 12 10	15 12 10	..	..	
	..	..	..	Rattans	" 11,245	..	..	465 12 8	465 12 8	..	..	
	..	..	..	Cost of certain seeds supplied to Singapore.	..	..	..	18 2 0	18 2 0	..	..	
	..	..	..	Cost of certain seeds supplied to Cudpah.	..	..	..	5 4 0	5 4 0	..	..	
				Total ..	Tons 4 No. 11,249	2,047 9/10	..	2,277 15 8	2,277 15 8	..	..	
	..	..	III	Confiscated drift and waifwood.	..	..	..	293 12 4	293 12 4	..	..	
				Total of the Division	..	.	..	10,725 7 6	10,725 2 6	..	..	
				Sold from depôt.								
Madura ..	..	Kodaikánal ..	I (*a*)	Rafters	Tons 2	lb. 1,162	..	19 9 0	19 9 0	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the Year 1885-86—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from forests.			RS. A. P.	RS. A. P.	RS. A. P.			
Madura—*contd.*	..	Kodaikánal—*continued.*	..	Junglewood ..	..	C. ft. 91	..	11 6 0	11 6 0	..	..	
	..	Vannáttipárai reserve.	..	Véngai	..	" 120	..	100 0 0	100 0 0	..	..	
	..	Pambar reserve.	..	Véngai	..	" 80	..	72 4 0	72 4 0	..	..	
				Total ..	Tons 2, C. ft. 291	lb. 1,162	..	203 3 0	203 3 0	..	..	
				Sold from depôt.								
	..	Kodaikánal and Kadavúr.	I (*b*)	Firewood	Tons 216	lb. 827	..	1,126 4 0	1,126 4 0	..	..	
			..	Cart-hire	..	..	..	38 12 0	38 12 0	..	..	
				Sold from forests.								
			..	Firewood	Tons 92	lb. 1,988	..	201 10 0	201 10 0	..	..	
				Total ..	Tons 309	lb. 575	..	1,366 10 0	1,366 10 0	..	..	
	..	Vannáttipárai.	I (*c*)	Gallnuts	Tons ·3	lb. 48	..	147 4 0	147 4 0	..	..	
			..	Shiyakoi	..	" 480	..	1 14 0	1 14 0	..	..	
			..	Cardamoms	..	" 9	..	4 8 0	4 8 0	..	..	
			..	Particulars not given.	..	..	..	0 10 0	0 10 0	..	..	
				Total ..	Tons 3	lb. 537	..	154 4 0	154 4 0	..	..	
			III	Confiscated drift and waifwood.	..	..	..	1,770 10 10	1,770 10 10	..	..	
				Total of the iDstrict.	..	..	..	3,494 11 10	3,494 11 10	..	..	
Tinnevelly .	..	Pápanásam and Ambásamudram.	I (*a*)	Miscellaneous ..	No. 730	C. ft. 753	..	703 4 9	703 4 9	..	..	
				Sold from depôt.								
			..	Miscellaneous ..	No. 697	C. ft. 747	..	922 2 1	922 2 1	..	..	
			..	Planks	" 16	" 34	..	36 8 2	36 8 2	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the Year 1885-86—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from forests.			RS. A. P.	RS. A. P.	RS. A. P.			
Tinnevelly —*cont.*	..	..	..	Spokes	Pieces 2,136	223	..	229 8 0	229 8 0	..	..	
				Total ..	No. 3,579	C. ft. 1,757	..	1,891 7 0	1,891 7 0	..	..	
	..	..	I (*e*)	Bamboos	Ton 1	lb. 1,120	..	182 0 0	182 0 0	..	..	
	..	..	I (*e*)	Seedlings	No. 1,505	..	..	48 8 9	48 8 9	..	..	
	..	..	III	Confiscated drift and waifwood	..	..	..	234 14 10	234 14 10	..	..	
				Total of the District.	..	..	..	2,356 14 7	2,356 14 7	..	..	
Malabar (Wynaad and Pálghat).	..	Wynaad, Chedleth, Kudrakôt, Pádri ranges.	I (*a*)	Teak	No. 1,289	C. ft. 47,870	..	22,443 8 8	22,443 8 8	..	..	
				Blackwood	,, 149	,, 4,935	..	1,534 14 8	1,534 14 8	..	..	
				Véngai	,, 25	,, 803	..	305 3 1	305 3 1	..	..	
	..	Pálghat, Chenát Nair Wálayár reserved forest and Walawanád forest.	..	Blackwood	,, 1	,, 16	..	8 2 6	8 2 6	..	..	
				Véngai	,, 35	,, 665	..	239 6 5	239 6 5	..	..	
				Teak pieces	,, 5,736	..	..	453 0 0	453 0 0	..	..	
				Miscellaneous ..	,, 143	,, 5,255	..	2,941 13 6	2,941 13 6	..	..	
				Teak poles	..	..	..	722 8 3	722 8 3	..	..	
				Total ..	No. 7,378	C. ft. 59,544	..	28,648 9 1	28,648 9 1	..	..	
	..	..	I (*b*)	Firewood	Tons 3,230	..	..	5,535 10 9	5,535 10 9	..	..	
	..	..	I (*c*)	Bamboos	No. 3,090	..	..	148 9 0	148 9 0	..	..	* In Form No. 69, 13,390 bamboos are shown to have been sold.
	..	Wynaad ..	..	Do.	,, * 9,215							
				Total ..	No 12,305	..	..	148 9 0	148 9 0	..	..	
	..	Wynaad and Pálghat.	I (*e*)	Cardamoms	..	lb. 304	..	308 12 0	308 12 0	..	..	
				Honey	..	,, 134	..	30 6 0	30 6 0	..	..	
				Particulars not known	..	..	..	12 11 0	12 11 0	..	..	
					..	lb. 438	..	351 13 0	351 13 0	..	..	
				Total of the division.	..	..	..	34,684 10 2	34,684 10 2	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the Year 1885-86—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from depôt.				RS. A. P.	RS. A. P.			
Malabar (Nilambúr)	..	Nellikutta ..	I (*a*)	Teak	No. 301	C. ft. 12,774	Rs. $1\frac{1}{15}$ per cubic foot.	13,756 12 5	..	..	..	
	..	..	..	Blackwood	16	663	Re. $\frac{10}{13}$	510 4 10	..	..	..	
	..	..	..	Véngai	112	6,968	,, $\frac{9}{16}$	2,411 13 7	..	..	..	
	..	..	..	Miscellaneous ..	500	29,324	..	7,408 2 2	..	..	..	
				Total ..	..	..	..	24,087 1 0	18,709 2 2	..	..	
	..	Kallai	..	Teak saplings ..	..	..	..	59,720 8 10	59,720 8 10	..	..	
	..	..	..	Bamboo rafters ..	12,260	..	..	1,067 8 0	1,067 8 0	..	..	
				Total ..	No. 13,189	C. ft. 49,729	..	84,875 1 10	79,497 3 0	..	..	
	..	..	I (*b*)	Firewood Karyas ..	Tons $11\frac{1}{2}$	..	Rs. 2-0-0 per cart-load of 50	46 0 0	46 0 0	..	..	
	..	..	I (*c*)	Bamboos	7,850	..	..	582 0 0	582 0 0	..	..	
				Sold from forests.								
	..	..	..	Bamboos	432	..	..	21 13 0	21 13 10	..	..	
				Total ..	No. 8,282	..	..	603 13 10	603 13 10	..	..	
				Total of the Division.	..	..	..	85,524 15 8	80,147 0 10	..	..	
				Sold from depôt.								
South Canara..	..	..	I (*a*)	Wild jack	No. 4	C. ft. 109	As. 12 0	81 12 0	81 12 0	..	..	
	..	..	..	Jack	,, 4	62	,, 12 0	46 8 0	46 8 0	..	..	
	..	..	..	Banapu	,, 45	$1,024\frac{1}{4}$	,, 13 1	835 13 7	835 13 7	..	..	
	..	..	..	Miscellaneous ..	,, 10	$188\frac{1}{2}$	,, 10 9	127 2 0	127 2 0	..	..	
				Sold from forests.								
	..	..	..	Teak logs	,, 87	359	..	145 9 6	145 9 6	..	..	
	..	..	..	Banapu	,, 17	$386\frac{1}{2}$	..	323 15 10	323 15 10	..	..	
	..	..	..	Miscellaneous ..	,, 1	$32\frac{3}{4}$	..	1 6 0	1 6 0	..	..	
	..	..	..	Teak poles	,, 80	..	..	11 5 0	11 5 0	..	..	
	..	..	..	Teak logs	,, 8	..	..	82 4 0	82 4 0	..	..	
	..	..	..	Jack	,, 5	30	..	8 2 0	8 2 0	..	..	
	..	..	..	Junglewood ..	,, 11	$54\frac{3}{4}$	..	8 8 0	8 8 0	..	..	
				Total ..	No. 272	C. ft. $2,246\frac{3}{4}$	..	1,672 5 11	1,672 5 11	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the Year 1885-86—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from forests— continued.				RS. A. P.	RS. A. P.			
South Canara—*continued*	..	..	I (*b*)	Firewood	Tons 32	..	As. 12 0	25 3 0	25 3 0	..	..	
	..	..	..	Do.	Particulars not known.		..	52 15 6	52 15 6	..	..	
				Total ..	Tons 32	..	..	78 2 6	78 2 6	..	..	
	..	..	I (*e*)	Cinnamon flowers ..	Tons 16	lb. 1,353½	..	3,644 13 5	3,644 13 5	..	..	
	..	..	..	Shiyakoi	9	,, 1,618½	..	555 11 1	555 11 1	..	..	
	..	..	..	Wax	..	,, 1,089½	..	476 8 2	476 8 2	..	..	
	..	..	..	Honey	Tons 2	,, 179	..	412 4 2	412 4 2	..	..	
	..	..	..	Myrabolams ..	,, 4	,, 345	..	228 13 7	228 13 7	..	..	
	..	..	..	Pepper	..	,, 503	..	114 12 2	114 12 2	..	..	
	..	..	..	Belaric Myrabolam ..	Tons 7	,, 1,103	..	74 14 11	74 14 11	..	..	
	..	..	..	Deer horns	..	,, 174	..	34 2 8	34 2 8	..	..	
	..	..	..	Nux Vomica ..	..	,, 1,509	..	30 15 6	30 15 6	..	..	
	..	..	..	Rampatri	..	,, 132½	..	20 1 3	20 1 3	..	..	
	..	..	..	Honne fruits ..	..	,, 1,596	..	14 4 0	14 4 0	..	..	
	..	..	..	Ramgotu	..	,, 368	..	12 0 0	12 0 0	..	..	
	..	..	..	Dhúp	..	,, 14	..	8 0 0	8 0 0	..	..	
	..	..	..	Myrabolams ..	Tons 45	..	..	2,970 0 0	2,970 0 0	..	..	
	..	..	..	Sundries	..	..	..	1,397 9 2	1,397 9 2	..	..	
				Total ..	Tons 87	lb. 1,024	..	9,994 14 1	9,994 14 1	..	..	
			III	Confiscated drift and waifwood.	..	..	..	1,392 5 3	1,392 5 3	..	..	
				Total of the District.	..	..	..	13,137 11 9	13,137 11 9	..	..	

Abstract for the whole Circle.

Budget sub-head.	Sales from forests. RS. A. P.	Sales from depôts. RS. A. P.
I (*a*)	39,185 12 3	95,495 9 4
I (*b*)	23,809 15 1	6,967 0 9
I (*c*)	476 2 2	668 6 0
I (*d*)	2,300 0 0	13,972 2 11
I (*e*)	13,263 14 4	44 6 9
III	4,836 11 11	974 6 1
Total ..	83,872 7 9	1,18,121 15 10

ANNUAL FORM No. 72.

Forest Department, Madras, Southern Circle.

Timber and other Produce cut, collected, and removed from the Forests by Consumers or Purchasers, including Pasture, during the Year 1885-86.

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
		TONS.	RS. A. P.	RS. A. P.	
Chingleput ..	Junglewood poles	1,741	4,352 15 10	4,352 15 10	II (*a*).
	Firewood	11,851½	7,544 12 10	7,544 12 10	II (*b*).
	Bamboos	196	494 6 0	494 6 0	II (*c*).
	Áváram bark	29½	881 0 0	881 0 0	II (*e*).
	Rent on palmyra fruit trees ..	..	1,042 5 7	1,042 5 7	
	Total of II (*e*) ..	29½	1,923 5 7	1,923 5 7	
	Total of the District ..	29½.	14,315 8 3	14,315 8 3	
North Arcot ..	Timber .. .. .. Cubic feet.	368,872	18,443 9 10	18,443 9 10	II (*a*).
	Palmyra trees	540	1,040 0 0	1,040 0 0	
	Total of II (*a*) ..	..	19,483 9 10	19,483 9 10	
		TONS. LB.			
	Firewood	30,902 1,228	23,176 14 8	23,176 14 8	II (*b*).
	Casuarina roots	79 1,120	79 8 0	..	
	Railway fuel	7,082 388	13,217 7 1	13,217 7 1	
	Charcoal	1,001 2,123	3,005 13 6	3,005 13 6	
	Total of II (*b*) ..	..	39,479 11 3	39,400 3 3	
	Bamboos .. .. Tons.	4,509	8,366 5 6	8,366 5 6	II (*c*).
	Do. contract	..	7,081 14 0	7,081 14 0	
	Total of II (*c*) ..	..	15,448 3 6	15,448 3 6	
	Grass	..	100 0 0	100 0 0	II (*d*).
	Bark .. .. Tons.	361	1,412 12 6	1,412 12 6	II (*e*).
	Gravel	432¼	52 8 3	52 8 3	
	Minor forest produce	..	9,847 9 2	9,847 9 2	
	Total of II (*e*) ..	..	11,312 13 11	11,312 13 11	
	Total of the District ..	..	85,824 6 6	85,744 14 6	
South Arcot ..	Véngai .. .. .. Cubic feet.	60	34 6 0	34 6 0	
	Satin	768	305 14 8	305 14 8	
	Karungali	162	65 6 0	65 6 0	
	Parambái	20	6 10 8	6 10 8	
	Selai	60	9 15 8	9 15 8	
	Ném	20	6 10 8	6 10 8	
	Namai	220	61 15 8	61 15 8	
	Kathurinji	80	24 9 4	24 9 4	
	Vémbu	60	11 10 8	11 10 8	
	Púvarasu	42	7 14 0	7 14 0	
	Junglewood	22,124	1,208 14 0	1,208 14 0	
	Miscellaneous timber	..	52 0 10	52 0 10	
		23,616	1,806 0 2	1,806 0 2	
	Palmyra trees .. .. .. No.	525	351 11 6	351 11 6	
	Cocoanut	61	7 14 0	7 14 0	
	Total of II (*a*) ..	..	2,165 9 8	2,165 9 8	II (*a*).
	Firewood .. .. .. Tons.	4,560	4,613 0 6	4,613 0 6	
	Casuarina	1,483	5,652 11 5	5,652 11 5	
	Bábúl	77	252 9 0	252 9 0	
	Áváram	101	101 14 0	101 14 0	
	Brushwood	2	8 0 0	8 0 0	
	Kilnwood	4	8 0 0	8 0 0	
	Charcoal	38	226 14 0	226 14 0	
	Sale of Porambokofirewood in auction by Revenue officials	..	4,706 9 0	4,706 9 0	
	Total of II (*b*) ..	6,265	15,569 9 11	15,569 9 11	II (*b*).

Timber and other Produce cut, collected, and removed from the Forests, &c.—*continued.*

District.	Produce removed — Description	Number or quantity	Amount of revenue.	Amount actually realized during the year.	Remarks.
		TONS.	RS. A. P.	RS. A. P.	
South Arcot—*cont*	Bamboos	1,349	2,774 8 6	2,774 8 6	
	Do. .. .. .. No.	12	2 6 0	2 6 0	
	Total of II (*c*) ..	..	2,776 14 6	2,776 14 6	II (*c*)
	150 cattle for 30 days at 8 annas per hundred	..	22 8 0	22 8 0	
	150 cattle for 49 days do. do ..	..	36 12 0	36 12 0	
	Fodder grass .. .. .. Tons.	12	8 7 3	8 7 3	
	Sale of grass	..	1 4 0	1 4 0	
	Total of II (*d*) ..	..	68 15 3	68 15 3	II (*d*).
	Avâram bark .. .. .. Tons	547	2,823 8 0	2,823 8 0	II (*e*).
	Velvélam bark	6	72 8 0	72 8 0	
	Konnai do.	1½	9 0 0	9 0 0	
	Thorns	348	117 12 10	117 12 10	
	Leaves	1,118½	1,523 1 7	1,523 1 7	
	Gallnuts	7 3/10	85 2 8	85 2 8	
	Other minor produce	..	1,753 4 11	1,753 4 11	
	Total of II (*e*) ..	..	6,384 6 0	6,384 6 0	
	Total of the District ..	..	26,965 7 4	26,965 7 4	
Salem	Timber .. .. .. Cubic feet.	116,106	12,326 10 8	12,326 10 8	II (*a*).
		TONS LB			
	House fuel	19,442 1,904	12,570 7 9	12,570 7 9	II (*b*),
	Railway fuel	3,314 0	6,339 6 5	6,339 6 5	
	Charcoal	1,487 1,904	5,301 1 6	5,301 1 6	
	Total of II (*b*) ..	..	24,210 15 8	24,210 15 8	
	Bamboos	8,875 784	11,494 1 0	11,494 1 0	II (*c*).
	Split bamboos	2,268 1,792	5,684 8 0	5,684 8 0	
	Total of II (*c*) ..	..	17,178 9 0	17,178 9 0	
	Grazing and fodder grass	..	418 13 2	418 13 2	II (*d*).
	Minor Produce ..	..	55,801 3 10	55,309 5 1	II (*e*).
	Total of the District ..	..	1,09,936 4 4	1,09,444 5 7	
Trichinopoly ..	Miscellaneous timber .. Cubic feet.	39,468	4,035 2 5	4,035 2 5	II (*a*).
		TONS. LB.			
	Firewood and charcoal	8,983 1,485	8,776 13 0	8,776 13 0	II (*b*).
	Bamboos	1,452 224	2,364 14 0	2,452 15 7	II (*c*).
	No.	637	88 1 7		
	Grass	..	2,122 5 0	2,122 5 0	II (*d*).
		TONS. LB			
	Minor produce	485 1,568	2,483 7 9	2,483 7 9	II (*e*).
	Total of the District ..	..	19,870 11 9	19,870 11 9	
Tanjore ..	Timber	..	186 0 0	186 0 0	II (*a*).
	Firewood and charcoal	..	4,963 9 8	4,963 9 8	II (*b*).
	Bamboos	..	9 4 0	9 4 0	II (*c*).
	Grazing and fodder grass	..	200 2 6	200 2 6	II (*d*).
	Other minor produce	..	1,951 7 3	1,951 7 3	II (*e*).
	Total of the District ..	..	7,310 7 5	7,310 7 5	
Coimbatore (North) ..	Véngai .. .. .. Cubic feet.	2,840	1,165 0 0	1,165 0 0	II (*a*).
	Miscellaneous timber	33,957	4,363 15 0	4,363 15 0	
	Total of II (*a*) ..	46,797	5,528 15 0	5,528 15 0	
	Firewood and charcoal .. Tons.	5,638	4,546 11 10	4,546 11 10	II (*b*).
	Bamboos, plain	2,916	6,195 11 6	6,195 11 6	II (*c*).
	Do. split	503	2,207 0 0	2,207 0 0	
	Total of II (*c*) ..	3,419	8,402 11 5	8,402 11 6	

Timber and other Produce cut, collected, and removed from the Forests, &c.—*continued.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks
		TONS.	RS. A. P.	RS. A. P.	
Coimbatore (North)—*cont.*	Grazing and fodder grass	..	1,437 10 0	1,437 10 0	II (*d*).
	Lump sum contract	..	7,750 0 0	7,750 0 0	II (*e*).
	Rent of topes including previous year's arrears	..	32,565 12 8	11,589 9 7	
	Other minor produce	..	3,259 1 10	3,259 1 10	
	Total of II (*e*) ..	..	43,574 14 6	22,598 11 5	
	Total of the District ..	..	63,490 14 10	42,514 11 9	
Coimbatore (South).	Teak .. .. .. Cubic feet	4,810	2,527 0 0	2,527 0 0	II (*a*).
	Véngai	7,178	1,225 0 0	1,225 0 0	
	Miscellaneous timber	41,159	4,458 0 0	4,458 0 0	
	Total of II (*a*) ..	53,147	8,210 0 0	8,210 0 0	
	Firewood .. .. Tons.	8,890	7,866 0 0	7,866 0 0	II (*b*).
	Do. on Poramboke	1,720	726 0 0	726 0 0	
	Charcoal	709	719 0 0	719 0 0	
	Total of II (*b*) ..	11,319	9,311 0 0	9,311 0 0	
	Bamboos	3,027½	6,426 0 0	6,426 0 0	II (*c*).
	Grazing fee, cattle .. .. No.	14,251	1,781 0 0	1,781 0 0	II (*d*).
	Grass in reserved lands	566	283 0 0	283 0 0	
	Total of II (*d*) ..	..	2,064 0 0	2,064 0 0	
	Minor produce	..	8,014 0 0	8,014 0 0	II (*e*).
	Total of the District ..	..	34,025 0 0	34,025 0 0	
Madura ..	Véngai .. .. Cubic feet.	1,556	474 0 0	474 0 0	II (*a*).
	Miscellaneous timber and junglewood	90,960	6,199 12 3	6,199 12 3	
	Total of II (*a*) ..	..	6,673 12 3	* 6,673 12 3	
		TONS. LB.			
	Firewood and charcoal	715,194 728	12,783 11 6	† 12,783 11 6	II (*b*).
	Bamboos	846 224	2,196 13 6	2,196 13 6	II (*c*).
	Grazing and fodder grass	..	1,338 3 0	1,338 3 0	II (*d*).
	Other minor produce	7 1,736	9,949 9 5	9,949 9 5	II (*e*).
	Total of the District ..	..	32,942 1 8	32,942 1 8	
Tinnevelly ..	Teak .. .. .. Cubic feet.	1,620	815 0 0	815 0 0	II (*a*).
	Véngai	2,090	997 0 0	997 0 0	
	Miscellaneous timber	22,248	3,342 0 0	3,342 0 0	
	Total of II (*a*) ...	25,958	5,154 0 0	5,154 0 0	
	Firewood .. .. .. Tons.	8,847 1,770	15,294 0 0	14,994 0 0	II (*b*).
	Charcoal	1,610 350	5,926 0 0	5,926 0 0	
	Total of II (*b*) ..	2,494 2,120	21,220 0 0	20,920 0 0	
	Bamboos	..	489 0 0	489 0 0	II (*c*).
	Grazing and fodder grass	..	57 0 0	57 0 0	II (*d*).
	Other minor produce	..	10,079 0 0	10,079 0 0	II (*e*).
	Total of the District ..	..	36,699 0 0	36,699 0 0	
Malabar (Wynaad and Pálghat).	Advance for teak	..	182 0 0	182 0 0	II (*a*).
	Do. Blackwood	..	200 0 0	200 0 0	
	Do. Véngai	..	327 8 0	327 8 0	
	Do. do.	..	96 0 0	96 0 0	
	Miscellaneous	..	404 4 0	404 4 0	
	Total of II (*a*) ..	..	1,209 12 0	1,209 12 0	
	Firewood and charcoal	..	279 8 6	279 8 6	II (*b*).
	Bamboos	..	376 14 0	376 14 0	II (*c*).
	Grazing and fodder grass	...	107 0 0	107 0 0	II (*d*).
	Other minor produce .. .. Tons.	242	1,230 4 0	1,230 4 0	II (*e*).
	Total of the District ..	..	3,203 6 6	3,203 6 6	

* One anna collected in excess.
† Six pies collected in excess.

Timber and other Produce cut, collected, and removed from the Forests, &c.—*continued.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
		TONS.	RS. A. P.	RS. A. P.	
Malabar (Nilambur)	Bamboos	13,022	390 10 7	390 10 7	II (*e*).
South Canara.	Timber	772	3,537 10 9	3,537 10 9	II (*a*).
	Firewood and charcoal	7,523	1,70,025 5 7	17,025 5 7	II (*b*).
	Bamboos	53,998	753 0 2	753 0 2	II (*c*).
	Other minor produce	..	4,206 14 8	4,206 14 8	II (*e*).
	Total of the District ..	..	25,522 15 2	25,522 15 2	
	Grand Total .. II (*a*)			72,864 2 5	
	II (*b*)			1,65,332 5 9	
	II (*c*)			57,395 6 4	
	II (*d*)			7,914 0 11	
	II (*e*)			1,35,443 5 1	
	Total ..			4,38,949 4 6	

Annual Form No. 73.

Forest Department, Madras, Southern Circle.

Abstract showing the value of Timber and other Produce at Sale Depôts for the Year 1885-86.

District.	Description of timber and other produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.		Remarks.
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favor of the year.	Against the year.	
				RS. A. P.			RS. A. P.	RS. A. P.	RS. A. P.	
Chingleput	....	..	..	..	..	..	..	..	..	
North Arcot	Redwood roots and stumps.	Tons 95	lb. 1,960	1,150 8 0	..	..	..	..	1,150 8 0	
	Casuarina fuel	,, 137	,, 1,960	275 12 0	160	1,656	321 8 0	45 12 0	..	
	Sandalwood	,, 13	,, 588	1,061 3 2	11	812	909 0 0	..	152 3 2	
	Total ..	..	..	2,487 7 2	..	..	1,230 8 0	..	1,256 15 2	
South Arcot ..	Maruthai	1	28	21 0 0	..	..	..	..	21 0 0	
	Namai	27	87	59 0 0	103	366	180 0 0	121 0 0	..	
	Véngai	1	2	2 0 0	..	..	..	..	2 0 0	
	Satin	..	..	..	4	9	6 0 0	6 0 0	..	
	Iruvadi	..	..	..	9	35	18 0 0	18 0 0	..	
	Selai	..	..	..	16	54	28 0 0	28 0 0	..	
	Vémbu	..	..	..	3	10	5 0 0	5 0 0	..	
	Sandalwood	lb. 1,064*	..	143 0 0	lb. 1,778	..	200 0 0	57 0 0	..	* In last year's return 1 ton, 1,624 lb., value Rs. 363.
	Honey	..	..	..	39	..	9 0 0	9 0 0	..	
	Total ..	..	..	225 0 0	..	..	446 0 0	221 0 0	..	
Salem	Áché	79	184⅔	182 0 0	98	263⅔	316 0 0	134 0 0	..	
	Selavunjai	9	54	43 0 0	9	54	43 0 0	..	..	
	Borassa	..	..	..	1	1⅓	2 0 0	2 0 0	..	
	Véngai	..	..	..	24	78⅓	102 0 0	102 0 0	..	
	Iruvadi	..	..	..	1	5	6 0 0	6 0 0	..	
	Teak	72	9⅓	10 0 0	..	..	..	..	10 0 0	
	Sandalwood	Tons 37	lb. 1,817	14,979 0 0	Tons 2	lb. 297	853 0 0	..	14,126 0 0	The stock of sandalwood was not replenished owing to scarcity of ripe wood. Hence the decrease.
	Total ..	..	..	15,214 0 0	..	..	1,322 0 0	..	13,892 0 0	
Trichinopoly ..	Casuarina poles	47	..	17 12 0	29	..	3 10 0	..	14 2 0	
	Firewood	Tons 33†	lb. 1,709	89 7 0	Tons 77	lb. 2,041	308 0 0	218 9 0	..	†The closing balance of last year was 28 tons and 1,261 lb., the District Forest Officer having omitted to take into account 5 tons and 448 lb.
	Total ..	..	..	107 3 0	..	..	311 10 0	204 7 0	..	
Tanjore	....	..	..	..	..	..	..	..	..	

Abstract showing the value of Timber and other Produce at Sale Depôts for the Year 1885-86—*continued.*

District.	Description of timber and other produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.		Remarks.
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favor of the year.	Against the year.	
				RS. A. P.			RS. A. P.	RS. A. P.	RS. A. P.	
Coimbatore North ..	Teak	..	..	..	9	40½	30 0 0	30 0 0	..	
	Sandalwood	..	..	..	lb. 1,995	..	249 0 0	249 0 0	..	
	Total ..	..	..	..	..	..	279 0 0	279 0 0	..	
Coimbatore South ..	Teak	481	9,916	6,507 0 0	389	8,964	6,538 0 0	31 0 0	..	
	Rosewood	380	6,150	4,549 0 0	272	4,341	2,170 0 0	..	2,379 0 0	
	Junglewood	1	28	11 0 0	3	78	20 0 0	9 0 0	..	
	Total ..	862	16,094	11,067 0 0	664	13,383	8,728 0 0	..	2,339 0 0	
Madura	Firewood	Tons 131	lb. 1,085	469 0 0	Tons 106	1,143	264 12 0	..	204 4 0	
Tinnevelly	Miscellaneous	337	357	250 0 0	436	998	1,314 0 0	1,064 0 0	..	
	Planks	9	27	41 0 0	69	112	67 0 0	26 0 0	..	
	Tánikai	Tons 11	lb. 358	256 0 0	lb. 687	..	8 0 0	..	248 0 0	
	Total ..	..	..	547 0 0	..	..	1,389 0 0	842 0 0	..	
Malabar (Wynaad and Pálghat).	....	..	..	..	..	..	..	..	..	
Malabar (Nilambúr).	Teak saplings	839	..	1,400 0 0	119	..	56 0 0	..	1,344 0 0	
	Bamboos	105	..	3 8 0	..	..	..	..	3 8 0	
	Total ..	..	..	1,403 8 0	..	..	56 0 0	..	1,347 8 0	
South Canara ..	Teak	32	646¼	888 0 0	33	666¼	900 0 0	12 0 0	..	
	Blackwood	1	13	13 0 0	3	35½	43 0 0	30 0 0	..	
	Wild jack	5	116¾	88 0 0	2	26	20 0 0	..	68 0 0	
	Jack	6	85¾	64 0 0	2	23¼	19 0 0	..	45 0 0	
	Banapu	6	69¼	43 0 0	19	322	260 0 0	217 0 0	..	
	Miscellaneous	21	323	166 0 0	52	1,185¾	750 0 0	584 0 0	..	
	Total ..	..	..	1,262 0 0	..	..	1,992 0 0	730 0 0	..	

ANNUAL FORM No. 74.

Forest Department, Madras.

Statement of elephants in the Southern Circle during the year 1885-86.

PART I.

Elephants in possession of the reporting officers throughout the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of monthly keep including servants and food.	RS. A. P.	Remarks.
Wynaad and Pálghat.	Chloe	Purchased in January 1878.	Per head ..	27 13 4	
	Phyllis ..	Transferred from Mudumalai in May 1881.			
	Lutchmi ..				
	Sankara ..				
Nilambúr ..	Vixen	Transferred from Wynaad in 1882.	Per head ..	44 10 0	This is due to increased supply of provisions and adjustment of charges of the previous year on account of elephants purchased from Mr. Morgan.
	Peyroo				
	Sampson ..	Purchased from Mr. Morgan in 1884.			
	Eva	*Vide* sanction order of the Conservator of Forests, Southern Division, No. 2685, dated 25th March 1886, which applies retrospectively from 14th November 1884.			

PART II.

Elephants received in the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of keep including servants and food.	RS. A. P.	Remarks.
Wynaad and Pálghat.	(a) Sultan Sha or Tusker.	Captured on the 4th May 1885.	Per head.	34 12 1	(a) Maintained for seven months
	(b) Ranee ..	Captured on the 13th June 1885.			(b) Maintained for nine months.
Nilambúr ..	(a) Theebaw ..	Captured on the 3rd January 1886.	Per head.	25 3 5	(a) Maintained for three months.
	(b) Lucy ..	Captured on the 15th February 1886.			(b) Maintained for one and half months.
	(c) Juno ..	Captured on the 17th February 1886.			(c) Maintained for one and half months.

PART III.

Elephants gone off the list during the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of keep including servants and food.	RS. A. P.	How disposed of.
Wynaad and Pálghat.	(a) Sunda or Kunjoo.	Transferred from Coimbatore in 1882.	Per head.	18 6 5	(a) Died on the 4th July 1885.
	(b) Ranee.	Captured.			(b) Died on the 4th May 1885.
	(c) Nilli.	Do.			(c) Died on the 24th September 1885.
	(d) Sultan Sha or Tusker.	Do.			(d) Died on the 19th December 1885.
Nilambúr ..	None ..	None.			

PROGRESS REPORT

OF

FOREST ADMINISTRATION IN THE NORTHERN CIRCLE, MADRAS, FOR THE YEAR 1885-86.

CHAPTER I.

INTRODUCTORY REMARKS.

As in previous years, the chief work of the year has been in the selection of forests for reservation. The following was the chief work done:—

Godávari.—Selection by Mr. Battie, Assistant Conservator in Lakkonda, Juddengy and Tótapalle.

Nellore.—Selection of reserved forests and village forests in the plains taluks by Mr. Vincent.

Cuddapah.—Selection of areas to complete the full proposals for reserved forests in Cuddapah.

Kurnool.—Selection of reserved forests commenced in the Yerramalais by the Conservator and District Forest officer, Mr. Sim.

Anantapur.—Selection of reserved forests by Mr. Lodge, District Forest officer.*

Nílgiris.—Selection of reserved forests by the Conservator in Paranginád and arrangement of village forests in the same by the Collector, Conservator and District Forest officer.

2. It will be useful here to put on record the work done in the last three years in the selection of reserved forests—the most important work we have to do and the one on which all real progress hinges.

3. The following schedule gives the state of affairs district by district:—

District.	Work done.	Work still to be done.
Ganjam	*Goomsur taluk.*—A valuable series of reserved forests mostly containing good sál timber. *Berhampore taluk.*—A few good areas in the Mohiri hills. Several areas of waste land for fuel and fodder reserves or their equivalent in reserved forests. *Chicacole taluk.*—A few areas of waste lands for fuel and fodder reserves or their equivalent.	*Agency tracts.*—Selection of good areas both for protective purposes and for timber; their demarcation and reservation.

District.	Work done.	Work still to be done.
Vizagapatam ...	*Sarvasuddhi taluk.*—Selection of a series of waste land pieces for reservation.	*Pálkonda taluk.*—Final and definite selection of reserved forests under the proposals made by the Conservator.
		Golgonda taluk.— Do. do.
Godávari ...	*Rékapalle-Bhadráchalam taluks.*—The selection of a proper series of good reserved forests containing teak, ironwood and other trees of value.	*Rampa.*—Selection of reserved forests and general management of the vast area of ironwood jungle (can wait a while).
	Rajahmundry taluk.—Selection of a few large blocks of good forest in the Lakkonda muttah.	*Rajahmundry taluk.*—Selection of scrub forests near the town (done since close of year).
	Peddápuram taluk.—Selection of good areas for reservation in the Juddengy forests.	*Tuni taluk*—Selection of areas for reservation in Tótapalle (done since close of year).
		Yernagúdem and Ellóre taluks.—Selection of reserved forests from Government lands available.
		Cocanada division.—Reservation of coast forests already selected.
Kistna	*All taluks.*—Selection of reserved forests in improvement of the old reservations.	*Bandar, Répalle and Bápatla taluks.*—Reservation of coast forests already selected.
Nellore	*Veligonda hills.*—Selection of reserved forests on these hills and their outliers.	*Plains country in most taluks.*—Settlement of reserved forests and village forests (work in progress).
	Coast forests and plantations.—Selection of reserved forests; settlement progressing.	
	Kanigiri, Udayagiri and Chinnakurti hills.—Under settlement.	
Cuddapah ...	*All taluks.*—Selection of areas for permanent reservation, now, so far as is known, fully completed.	*Western taluks.* — Notification of babul forests and plantations; only small areas.
Kurnool ...	*Nallamalai* and *Veligonda* hills, embracing the country east of Nandyál, fully selected and under settlement.	*Yerramalai hills and Western taluks.*—Selection partly done, rest requires completion.
Bellary	*Adóni taluk.*—Selection of areas for reservation.	*Other taluks.*—Further areas to be finished under recent arrangements, chiefly in Kúdligi, Harpanahalli and Hospet taluks.
	Bellary taluk.—Selection completed.	
	Other taluks.—Selection partly done.	
Anantapur ...	*Muchukota.*—Forest notified and under settlement.	*All taluks.*—Selection of further reserves as for Bellary; work in progress.
	Penukonda and Hindupur taluks.—Some good areas selected and under settlement.	
Nílgiris	Selection of reserved forests now fully completed; also village forests for the plateau náds. A few areas still remain to be notified, but selection is all done. Maps nearly ready.	

4. It will be seen that the work still to be done is not very much. The Conservator hopes to see it nearly finished by the end of the current official year, but he is desirous of putting the results of the three years on record in case he should not be in India when the next annual report is written. He is looking forward to the time

when the preliminaries of forest selection, demarcation and settlement will be completed, when the heavy correspondence about them will have ceased, and when the officers of the department can settle down to the professional business of improving and working the Government estates.

5. During the year orders of Government have put a stop to the export of sál from the Government agency tracts of Ganjam.

CHAPTER II.

AREAS AND BOUNDARIES.

6. Form No. 59 A shows the area of reserved forest under the Forest Act, section 16. It will be seen that it was 4,596 acres at the beginning of the year, that during the year 3,698 acres were added in Anantapur and 58,084 in Nílgiris, making the total at the end of the year 65,552 acres or 102 square miles. Form 59 B is omitted this year as it is the same as last, with the exception of the transfer of the following areas to form 59 A :—

		ACRES.
Anantapur ...	Gooty	331
Nílgiris ...	Benné	10,317
	Ootacamund plantations	447
	Coonoor do.	235

The form is now unimportant and its omission will reduce the amount of unnecessary returns.

7. The settlement work in Nílgiris progresses very satisfactorily; work in Cuddapah is now so far advanced that next year ought to see a large addition to the area of reserved forest; in Nellore the difficult settlement of Sríharikót is approaching completion and some other areas are finished; in Kurnool the western side of the Nallamalais awaits the result of the appeals against orders of the Forest Settlement-officer; in Ganjam and Anantapur the work progresses slowly; and in other districts it is almost at a standstill. The energetic prosecution of this settlement work is beyond the Conservator's power to further, though he has endeavoured to use his influence with Collectors in getting it pushed on. In Kistna, where the reserved forests were proposed in July 1884 and January 1885, nothing has yet been done, but this is probably due to a series of changes in the district revenue staff. As some of the Settlement-officers appointed do not submit the monthly progress reports required by the Board upon which and upon the diaries of District Forest-officers the Conservator relies for his information as to the progress of settlement work, he is unable to record progress very definitely.

8. The Conservator found it very useful to record in paragraph 31 of the annual report for 1882-83, paragraph 10 of that for 1883-84, and paragraph 8 of that for 1884-85, the list of "proposed reserved forests." Those added to the list during the year under review were the following :—

33. Nílgiri district.	Kundah	Notification No. 139 of 5th May 1885.
	Thiashola	
	Mikkoru	
	Hiriyashige	
34. Bellary district.	Rayadrúg	Notification No. 150 of 21st May 1885.
	Dharmapuri	
	Argupa	
35. Nellore district.	Rápár Veligondas	Notification No. 164 of 10th June 1885.
	Udayagiri	
36. Do. ..	Nandanavanam	Notification No. 190 of 6th July 1885
	Vedullacheruvu	
37. Do. ..	Yerrakondas	Notification No. 238 of 22nd August 1885.
38. Ganjam district.	Rangodo	Notification No. 311 of 2nd November 1885.
	Bainamari	
	South Mohiri	

39 Vizagapatam district.	Peddapalli Vemagiri Doppérla Vewakonda Chimalapalli Ganimetta hill Nunabarthi konda	Vontikonda Kothuru Rajala Kalavalapalli Pothukonda Vakapadu Velpukonda	Vuppalam Kapilavathadukonda Allimetta Baiyavaramkonda Kodurumetta Panchadarlakonda Chodapallikonda	Notification No 342 of 14th November 1885.
40. Godávari district.	Mulkanapalli Chintagura Dumagudiem Arlaguram Tunkicheruvu Bhadráchalam Gogubaka Komanpalli Bandreo Golagupa	Narakonda Pengha Upanapalli Tatlunka Ramchandram Rapak Sitarampuram Bhandarguriam Burkankota Kaler	Nialakota Lakewaram Kanslur Mitapali Pulsmamri Walsugri Rékapalle hills Marigura	Notification No. 18 of 19th December 1885.

9. The additions in *Ganjam* consist of three selected areas of 5,400 acres in the Mohiri hills in the Berhampore taluk and with those already notified in Goomsur complete the selections of reserved forests except as regards the agency tracts. In *Vizagapatam* the areas enumerated are small pieces, in the Sarvasiddhi taluk mostly very bare, but still capable of recovery under careful management with some artificial assistance.

10. In *Godávari* the areas chosen are those of the Rékapalle-Bhadráchalam taluks, to which, being scheduled districts, the Forest Act was extended during the year by order of the Government of India.

11. The additions in *Nellore* consist of the areas selected in the Veligonda and Yerrakonda hills; those in *Bellary* to the selections made in the Rayadrúg taluk; and those in the *Nílgiris* to the proposed forests of the Kundah nád.

12. *Demarcation.*—In *Ganjam* demarcation in the Mohiri and Suradá forests is completed except for some few villages which form enclosures. In the Mojagodo and Kurcholy ranges also it is progressing well. A sum of Rs. 1,293 was spent in all ranges, but the exact distance done has not been reported.

13. In *Vizagapatam* demarcation was only just begun at the close of the year in the Sarvasiddhi forests. In *Godávari* demarcation was started in the Rapak block, but the line was temporarily cleared at first so as to allow of speedy marking off in order that villagers might know it early and avoid claims relating to land outside such as are so frequently received at settlement. The cost of the eight miles done was Rs. 26, but the District Forest officer estimates that the whole cost including posts will be Rs. 26 per mile.

14. In *Kistna* and *Nellore* no demarcation has been reported, which is a matter for considerable regret. The work of settlement is enormously facilitated by previous careful demarcation in the Conservator's opinion.

15. In *Cuddapah* 119 miles of line were cleared at a cost of Rs. 2,253, or Rs. 19 per mile. Some of the lines, however, were in easy forest, others were roughly done only, and in others the boundary marks had not been permanently erected. The demarcation work completed up to date in *Kurnool* consists of the western side of the Nallamalais, cut regularly for the northern blocks and roughly for the southern, and the reserves so far selected in the Yerramalais. During the year only four miles were cut and the rest recleared. Up to date 57 miles have been done at a cost of about 100 rupees per mile, the high rate having been due to a mistaken notion that the line ought to be 30 feet broad. Line-clearing on the western side of the Nallamalais is heavy, but should not cost more than Rs. 30 per mile including posts and a breadth of 10 feet only.

16. In *Bellary* the demarcation of the eastern boundary of the Ramandrug block was completed in a substantial way by making it into a carting road Three and a quarter miles were done at a cost of Rs. 239, and the total length of the road is now 8⅝ miles at a cost of Rs. 705, or about 82 rupees per mile, which is by no means dear for the work, with which the Conservator was pleased. The other demarcation done consisted of—

		MILES.	RS.
Sandúr range ...	Somlapur	2½	27
	Gund	5	24
	Bandri	17	34
Western do. ...	Sunkadakul	13	164
	Shivpur	2	32
	Sherbi	4	6
Bellary do. ...	Tornagul	3	27
	Ráyadrug	6½	9
	Total ...	53	323

or about 6 rupees per mile, but then clearing of jungle is easy in Bellary. In the *Anantapur* district, part of the Muchukota forest boundary, 34½ miles in length, was demarcated at a cost of Rs. 176. twenty feet broad. In Narsimpalle reserve 6 miles were done and 35 pillars erected at a cost of Rs. 69, while in Amagundapaliem and Somarazmalai 7½ and 6 miles were done at a cost of Rs. 77 and Rs. 53, respectively. The average cost is therefore for 54 miles nearly Rs. 7 per mile.

17. In the *Nílgiris* demarcation work has gone on well, though some of the work done was not quite as thorough as it ought to be. That is, some of the lines inspected by the Conservator were only slightly cleared and some of the posts put up were insufficiently conspicuous and strong. The following was the cost of the work done:—

	Distance. MILES.	Posts. NO.	Cost. RS.
Ootacamund range	55	918	649
Coonoor and Melúr ranges	191	905	1,244
Naduvatam range	132	2,586	1,382
Mudumalai and Sígúr ranges	72	491	583
Total ...	450	4,900	3,858

or Rs. 8·6 per mile.

18. In demarcation work the cost varies according to the country in which work is carried on and the thickness of the growth. In the Nallamalais of Kurnool and the lower parts of the Nílgiris it may reach Rs. 30 to Rs. 50 per mile; in localities like the east of Cuddapah it might come to about Rs. 15 to 30, while in dry, bare country or on grass land it would naturally be less than Rs. 15.

19. *Reserved lands:*—The list of reserved lands is given in form 59 C. It shows but little alteration from that of the previous year, the area being merely reduced from 3,593 square miles to 3,557 square miles. The fact is that until the reserved forests are settled and such village forests as can be made available also set aside, it will not be possible to define very accurately the "reserved lands." Indeed, in the Northern Circle this category will nearly disappear. In Bellary the proposals made by the Collector, Mr. Galton, after consulting the Conservator have led to orders having been passed to reserve permanently a large proportion of the waste land area and leave the rest for the continuation of the previously conceded privileges of grazing and cutting. The department will then be able to concentrate its energies on the improvement of the vegetation of the reserved forests and the growth of fuel and grass. Similar arrangements were approved for the western and southern parts of Cuddapah and will probably also be adopted for Anantapur and Western Kurnool. In the Nílgiris nearly the whole available area has been made into reserved forest and village forest. In the Northern Circars also—Ganjam, Vizagapatam and Godávari at any rate—there need be no necessity for constituting many, if any, areas reserved lands; while in Kistna, Nellore and Eastern Kurnool and Cuddapah after the selection of the reserved and village forests there will be probably a few large areas for reserved lands, but none of any great consequence. The areas which are given in the form as actually being reserved lands are mostly proposed reserved forests and will gradually be transferred to form 59 A.

20. *Village forests.*—In paragraph 25 of last year's report the rules for the Nílgiri village forests were given. They have now been revised and are herewith given in correction of the former ones:—

Subsidiary rules under rule 7 of the rules framed by the Governor in Council under section 26, *Act V of* 1882.

(1) No person shall cut any trees, or gather any fuel, grass, fruit or other forest produce, or graze any animals or permit any animals to be grazed in any village forest unless he has been authorized by the Collector, in writing, so to do.

(2) No person shall cut any trees in a village forest except on a permit granted by the monegar, who shall first inspect and mark the trees to be felled. Permits should not usually be granted for felling saplings or growing trees, and great care should be taken in felling full-grown trees not to injure young timber growing under them.

(3) No person shall graze any goats or permit any goats to be grazed in any village forest.

(4) No person shall be allowed to cut more wood, or gather more fuel, grass, fruit, &c, than is required for his domestic use.

(5) No person shall sell any wood, fuel, grass, &c., gathered in a village forest except to persons entitled to cut or gather such wood, fuel, grass, &c., under these rules

(6) Grazing may be stopped by order of the Collector in any village forest, if it should be necessary to do so for the purpose of protecting young trees and coppice. Such order shall be published in the District Gazette and a copy thereof shall be posted at the village chavadi or at some other conspicuous place in the village and shall come into force on a date to be fixed therein not being less than one calendar month after publication as aforesaid. From and after such date no person shall graze any animals or permit any animals to be grazed in such village forest.

(7) All disputes amongst villagers regarding the produce of village forests and appeals against refusal of the monegar to grant a permit under rule 2 shall be settled by a panchayet consisting of the monegar, curnam and three of the principal ryots of the village not concerned in the dispute or the matter in appeal The curnam shall record the decision of the panchayet in a book to be kept for the purpose, and the decision shall be final.

(8) Except as provided in rule 7, the monegar will be held solely responsible for the conservancy and proper management of the village forests within his village limits, and it will be his duty to report all breaches of these rules to the Deputy Tahsildar through the Revenue Inspector.

(9) Whoever contravenes any of the provisions contained in rules 1, 2, 3, 5 and 6 will be liable, on conviction before a Magistrate, to be punished with imprisonment for a term which may extend to one month, or fine which may extend to one hundred rupees, or both.

21. The village forests for Paranginád, Merkunád, Kundahnád and Tódanád in the Nílgiris have been selected and during the current year will be made over to the monegars. It is expected both by the Collector and the Conservator that the Badagas will take an interest in them, manage them carefully and replant blanks. Selection in Cuddapah and Nellore is in progress.

22. *Leased forests.*—The area is given in form 59 D, the alteration being due to the rectification of the area of Mudumalai.

During the year proposals were received by Government from the Collector of Vizagapatam relative to the lease of some of the better areas of forest in the Jeypore zemindari or their management by Government on the zemindar's behalf. There is no doubt but that some such arrangements will be most useful, both for the protection of streams and the supply of big timber, but how it is to be done when the staff of officers is so small is the difficulty. The Conservator has submitted a report on the matter to Government.

The results of working in the leased forests are recorded under the proper heads further on.

23. In their review on last year's report the Government of India asked for a tabular statement of the progress of settlement of different classes of forest. The following gives a fair idea of the state of things :—

Circle.	Reserved forests under Act V of 1882	Reserved forests under previous orders	Leased forests.	Reserved lands.
	SQ M.	SQ M	SQ M	SQ M
Northern	102	802	136	3,557

The Conservator regrets his inability to give the area of unreserved land with any approach to accuracy.

CHAPTER III.

SURVEYS, WORKING PLANS, AND PLANS OF OPERATIONS.

24. *Surveys.*—The chief work done towards forest maps was the careful entry of all reserved and village forests on the village maps of the Nílgiris and the record was nearly completed. Separate maps for the Cuddapah reserved forests were also started; and arrangements with the Survey Department are in progress for the better supply of forest maps, especially in those districts which are not well supplied with one-inch taluk and topographical maps.

25. *Working plans.*—It is well here to explain how we stand in this matter. *Permanent* working plans are unfortunately as yet out of the question, because only a few forests have been settled and demarcated; a proper staff and professional officers cannot be spared; the question of supply and demand has not been accurately settled; fire-protection has not been assured; and sufficient information regarding the forests has not been obtained. Except the sál forests of Goomsur, the ironwood forests of Godávari, the valleys of the western side of the Nallamalais in Kurnool and some of the Nílgiri forests, we have no forests which are likely for a great many years yet to be worth elaborate working plans. Most of our forests have been much overworked, and that especially in respect to the sound and good timber; and the condition of the growth and of the surface soil is very poor. In the Conservator's opinion, therefore, we must wait some years before it is worth while to have a separate working plan party; and, in the meantime, we must collect statistics, make sure of protection from fires and, wherever necessary, from cattle; and endeavour by careful improvement thinnings to obtain a better quality of growth. In order to effect these thinnings, *preliminary* working plans are being started wherever possible, as for instance in the Nílgiri sholas, in Mudumalai and Sandúr leased forests, and in the Goomsur sál forests. Working plans of a rather more advanced character have been made for the Nílgiri plantations, the Nellore casuarina plantations and the Ballipalle evergreen fuel reserves.

26. The preliminary working plan for the Sandúr leased forests allows of merely improvement thinnings over the whole of the forests during the next fifteen years, taking one compartment each in the three working circles. The Conservator regrets to find that the orders were not carried out, and that only part of a compartment in Ramandrug was done. He trusts that another year the orders will be fully and carefully attended to. The District Forest-officer reports that the coppice growth on the area thinned last year is doing well. It would seem that the cost of thinning what was done and stacking the fuel came to about 12 annas per ton. There is but little demand, curiously enough, in Sandúr. The District Forest-officer says that the railway companies, cotton-press managers and others prefer tamarind and babul wood, but the Conservator has always understood that the railway companies refused to accept babul wood. However this may be, there is no doubt of the fact that tamarind and other fruit trees are being destroyed, for piles of wood, chiefly tamarind and margosa, may be seen at the railway stations, and it is difficult to know where they could have come from except from villages. As the destruction is chiefly in the Adóni, Alúr and Bellary taluks, the driest and barrenest in the presidency, it is much to be regretted.

27. The yield of the Sandúr leased forests was as follows:—

Teak poles	425
Bamboos	32,123
Firewood	1,258 tons
Charcoal	14 maunds
Brushwood	460 loads
Myrabolams	103 maunds
Tamarind	43 „
Grass	5,347 cart-loads

and some gums, honey and wax.

28. In the Ballipalle working circle in Cuddapah the following is the plan of cuttings for the first ten years :—

1882-83	1 *a*	3 *a*	
1883-84	5 *b*	6 *b*	
1884-85	4 *a*	2 *b*	10
1885-86	1 *c*	8 *b*	
1886-87	3 *c*	7 *b*	
1887-88	1 *b*	5 *a*	
1888-89	9 *a*	7 *a*	
1889-90	2 *a*	6 *a*	
1890-91	8 *b*	9 *b*	
1891-92	8 *a*	4 *b*	

The working plan was carried out and compartments 1 *c* and 8 *b* cut over, leaving as many standards as would be found fit for keeping. The result of the cuttings was—

—	Area.	Engine fuel.	Small fuel.	Total.
	ACRES.	TONS	TONS.	TONS.
1 *c*	13	220	122	342
8 *b*	45	320	253	573
Total ..	58	..	..	915

or about 16 tons per acre and compartment 10 of the previous year was completed giving 167 tons of fuel. The cuttings of the last four years have given therefore—

	Area.	Tons.	Per acre.
1882-83	50	562	11¼
1883-84	55	907	16½
1884-85	46½	1,002	21½
1885-86	58	915	16

or an average of 16 tons per acre. The coppice growth is coming on well in some places, in others it is rather backward. The Conservator is by no means sure that it will not be better to clear and replant instead of to treat this forest in coppice, but he would like to see the results of a few more years' cuttings before finally deciding. The larger compartment cut this year was mostly deciduous forest and the yield therefore not so good as from evergreen.

29. The account of the working plan of the Nellore casuarina plantations is best given in Mr. Vincent's own words :—

"A working scheme has been drawn up for the casuarina plantations for the years 1884 to 1897, of which the details are given below :—

Year of felling.	Areas to be cleared.	ACRES.	
1884.	Dugarázpatnam	65	
„	Pakala and Binginipalle	10	
„	Sending detached plantations	27	
			102
1885.	Tamenapatam	137	
„	Iskapalle	6	
„	Kanuparti	4	
			147
1886.	Vutukur	32	
„	Varany...	120	
			152
1887.	Kottapatam	...	120
1888.	Dugarázpatnam	36	
„	Tamenapatam	32	
„	Kottapatam (Ongole taluk)	33	
„	Kanuparti	36	
			137
1889.	Vutukur	112	
„	Tummalapenta	43	
			155

Year of felling.	Areas to be cleared.	ACRES.	
1890.	Varany	120	
„	Ramapatam	33	
			153
1891.	Tamenapatam	...	171
1892.	Dugarázpatnam	...	167
1893.	Kottapatam	150	
„	Dugarázpatnam	40	
			190
1894.	Dugarázpatnam	53	
„	Tamenapatam	179	
			232
1895.	Dugarázpatnam	80	
„	Tamenapatam	* 162	
			242
1896.	Dugarázpatnam...	70	
„	Vutur	† 32	
„	Varany	‡ 124	
			226
1897.	Dugarázpatnam	60	
„	Kottapatam	§ 249	
			309

* Of this 137 acres coppice.
† Coppice.
‡ Of this 120 acres coppice.
§ Of this 152 acres coppice.

"In drawing up this scheme the normal age for clearing was taken as ten years, both for original and coppice growth. But as owing to scarcity of labor no annual extensions of more than 60 acres can be made at any one place, the normal age for clearing cannot be kept to when over 120 acres are cut yearly, unless we are prepared to cut in several places in the same year. Working with a couple of miles of tramway, which is required for eight months annually at Sríharikót, this would obviously offer some difficulty, and it has therefore been arranged to clear some plantations when only eight years old, and to leave others for fifteen years. This arrangement will afterwards give no large blocks of coppice of one age.

"The difficulty of keeping to the normal age, when our object is to provide a steady and gradually increasing supply of firewood—not to flood the market one year and starve it the next—is increased by no large extensions having been made from 1876 to 1879."

30. The working plans for the Nílgiri blue-gum plantations are very simple. That for the Coonoor peak working circle was given *in extenso* in last year's report. The Conservator regrets to say that again the working plan was not carried out owing to the large amount of wind-fall wood still on hand. The Ootacamund plantations are distributed in three working circles—

1. Aramby.
2. Cairn hill.
3. Governor's shola.

31. The Aramby working plan is under revision and will be submitted next year and indeed before that with an inspection note. It requires revision on account of changes in the areas and designation of the compartments. Two compartments were cut during the year, viz.:—

—	Area.	Yield.	Bolt trees.	Total.
	ACRES.	TONS.	TONS.	TONS.
I *b*	5	565	100	665
V *b*	5	422	133	555
Total ...	...	...	...	1,220

or 122 tons per acre. A small area of about one acre of shola was also cut giving 66 tons of wood.

32. The working circle of Cairn hill, map of which has just been published, contains—

	ACRES.
Shola	152
Grass	103
Swamp	3
Blue gum	90
Acacia	25
Conifers	26
Others	4
Roads	2
Total ...	405

The working plan for block IX, 53 acres, *Eucalyptus Globulus*, is as follows :—

	Compartment.	Area. ACRES.
1884	2	4¼
1885	4	7
1886	7	6
1887	1	5
1888	3	4
1889	5	5½
1890	9	4½
1891	6	4
1892	8	6½
1893	10	6¼
Total ...		53

As shown in last year's report, compartment 2 was cleared in 1884, yielding 412 tons. Last year compartment 4 was cleared and gave 546 tons on seven acres. Estimating the shelter belt at 104 tons, this amounts to 650 tons or 93 tons per acre. Part of this compartment was only thinly stocked with a small species of Euculyptus, name not known. For the two together the yield has been for 11¼ acres 1,196 tons or 106 tons per acre. Mr. Hutchins estimated 105. Nine acres of shola also underwent improvement thinning, yielding 333 tons or 37 tons per acre. The saplings left as standards were nearly enough to restock the compartment alone and the coppice shoots, especially in the upper part, leave nothing to be desired.

33. The working plan for Governor's shola (*Eucalyptus*) is also under revision to a slight extent, necessitated by the completion of settlement and the advisability of altering the cuttings somewhat. During the year under review were cut—

	Area. ACRES.	Yield. RS.
Baikie, No. 2	10	507
Governor's shola, No. 3	7	703
Total ...	17	1,210

excluding the shelter belts. They were not quite finished during the year.

34. In the Mudumalai leased forest, block 2, Tippakadu, was gone over with improvement thinnings. The number of timber trees obtained was teak 183, blackwood 60, vengai (*Pterocarpus marsupium*) 118, mutti (*Terminalia tomentosa*) 35. The other trees and small wood thinned out is, under the lease, the property of the Tirumalpad of Nilambúr, unless he does not require it, when it will be sold for Government. Block 3 will be commenced at once for 1886.

CHAPTER IV.

PROTECTION AND IMPROVEMENT.

35. (a) *Establishments, ranges and beats*—(1) *Superior staff.*—This consisted at the close of the year of—

One Conservator	Mr. Gamble.
Four Deputy Conservators	Messrs. Higgens, C.S., Vincent, Hooper (on furlough), Colonel Jago.
Seven Assistant Conservators	Messrs. Brougham, Lushington, Battie, Homfray (Acting Examiner of Forest Accounts), Lodge, Sweet, Leresche.

The two losses having been Mr. H. A. Sim, C.S., retransferred to the Revenue Department and Mr. Boileau deceased.

Mr. Vincent was promoted to be a Deputy Conservator, second grade, and Mr. Lushington to be Assistant Conservator, first grade, during the year.

36. (2) *Subordinate staff.*—Mr. C. Toussaint passed successfully out of the Forest school, obtaining the ranger's certificate; Mr. Tweedie failing to do so.

The staff was as follows at the end of the year, showing but little alteration for 1884-85:—

District.	Office establishment.		Forest establishment.				Total.
	Clerks.	Peons.	Sub-Assistant Conservators.	Forest rangers.	Foresters.	Forest guards.	
	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Conservator's office	315	56	..	..	..	..	371
Ganjam	45	58	..	180	60	122	465
Vizagapatam	20	40	200	50	20	68	398
Godávari	45	34	150	50	65	84	428
Kistna	65	70	..	130	120	282	667
Nellore	100	64	..	160	145	330	709
Cuddapah	100	102	..	280	150	428	1,060
Kurnool	75	90	..	150	115	206	636
Bellary	40	46	..	50	105	216	457
Anantapur	40	46	..	50	65	138	339
Nilgiris	100	81	..	100	165	244	690
Total ..	945	687	350	1,200	1,010	2,118	6,310
Forest school ..	..	..	200	..	30	..	230
Balance saved ..	..	..	500	125	60	..	685
Grand Total sanctioned ..	945	687	1,050	1,325	1,100	2,118	7,225

Ranges and beats.—No particular alteration took place during the year. After the constitution of the reserved forests the ranges and beats will require modification. Till then, it will not be possible, with any accuracy, to give the areas controlled.

37. (b) *General protection and breaches of Forest rules.*—Form 63 shows the prosecutions for breach of forest rules during the year. The number of cases was 848, making with 78 pending cases 926 cases in all. In 635 cases convictions were obtained, 225 representing acquittals and 66 cases pending at the end of the year. The percentage of convictions was best in Nílgiris 95 and Vizagapatam 93. In Cuddapah and Godávari it was 86, in Kurnool 81, in Anantapur 70, in Ganjam 65, in Kistna 60, in Bellary 52, and in Nellore 41.

38. The cases in *Ganjam* were unimportant with one exception. The exception was the prosecution of the sirdar of Baibali for the theft of 100 sál trees. The evidence against the sirdar proved insufficient, but the cartmen were punished.

The *Vizagapatam* cases chiefly occurred in the Pálkonda range and in *Godávari* in the lower taluks. Most of the cases in *Kistna* occurred in Palnád; they were, as were also those in *Nellore*, only petty cases, and nothing special is recorded of them.

39. The cases which occurred in *Cuddapah* were mostly in the Pullampet, Cuddapah and Badvél taluks, and the large proportion of convictions shows the care taken to avoid prosecutions on insufficient evidence. It is worth note that in spite of the great difficulty which exists in proving cases of wilful firing of the forests several

convictions were obtained. The District Forest officer acknowledges the assistance given him in protection by Police officers and village officers. In *Kurnool* the chief cases were three in which contractors for the Bellary-Kistna State Railway were prosecuted for unlawful cutting and sentenced to fines of Rs. 100, Rs. 50 and Rs. 50, respectively. These cases of theft by railway contractors have given a great deal of trouble; they are due to the contractors and maistries having taken advantage of the difficulty the department has in watching so long a length of line through Government forest and the supposed support of the Railway officers, but the results, due to Mr. Sim's energy, have been satisfactory, and have taught them that rules must be obeyed. Other cases in Kurnool were merely petty ones. The District Forest-officer acknowledges the help received from Revenue officers. In *Bellary*, *Anantapur* and *Nílgiris* the cases were for petty misdemeanours and require no special remark.

40. The number of cases compounded during the year was 146, most of them in Kistna and Cuddapah. The amount realized was Rs. 482. The details are given in form 63.

41. *Forest fires and fire-protection.*—This year, instead of giving results for a fire season which really would in most years be short of the usual time, the results are given for the year. It is still not quite a satisfactory change, and the Conservator thinks that a special report on the 1st October would probably be more suitable as by then fires would everywhere be over. And he doubts the possibility of really using or altering form 63 so as to show accurately and usefully the results of a year. This year fires have ended almost everywhere on or about June 1st, but it is the exception that they should do so. They were bad in all districts, especially in the Nílgiris, Cuddapah and Bellary, during April and May. In Cuddapah some important forests were burnt which had been protected the previous years, and the consequence was that owing to the accumulation of dry material the fires were worse than usual, after the close of the year, though for the actual financial year results were very good.

42. In Ganjam there were no fires to speak of during the year, though there were many after its close. The District Forest-officer remarks on the small damage they do in sál forest. It certainly is true that there are only the dead leaves to burn, but the scorching of the soil and the destruction of the leaves and humus is not a good thing.

43. The Collector of Godávari reports that nothing was attempted and that several fires occurred. As demarcation, however, is now progressing some special areas must now be taken in hand, the first being Bhadráchalam, Rapaka and Mitapali in the upper taluks and one or two selected areas in the lower. In Vizagapatam also nothing was done. From the District Forest-officer's report it would seem that it is only in the agency tracts that fires are likely to happen. Indeed, all through the three Northern Circar districts the low country has very little grass and its protection is easy. What usually gets burnt are the slopes of the hills and especially those which have been cultivated in kumri and on which, through grazing or other causes, reproduction of trees has not been good.

44. The Collector of Kistna reports no fires as having occurred during the year. As usual, the Collector of Nellore states that the fires which occurred in the Veligondas came from the Cuddapah side, but that there were only two before the end of the official year. Since then many others have happened.

45. As already noted, fire-protection in Cuddapah was fairly successful up to April 1st, but after that fires were very severe and the season has probably been one of the worst known. The grass dried very early and the heat was much greater than usual. The fact that so many special blocks were burnt points rather to the necessity for reduction of their number and concentration of work on a few only and in those taking more stringent measures. The Conservator will give this matter his attention; but in fire-protection, as in most other works, real progress is impossible till the reserved forests are settled and demarcated and finally set apart. The Collector remarks on the probability of many incendiary fires, and attributes them to a great extent to the stoppage of goat-grazing in the special areas, and the desire of the owners to retaliate. In Kurnool also fires have been bad, about one-half of the Nallamalais having been burnt. In the special area 1,500 acres were burnt.

46. In Bellary the area protected amounted to 8·8 per cent. of the areas attempted. The worst fires were in the Donemalai block where nearly the whole was burnt after the year. That block was not under special protection. The 5,100 acres burnt were all in the north-eastern block, Rámandrug block having escaped. The Collector's report states that while the Sandúr villagers gave much assistance in putting out fires, the Government ones stood aloof and refused to help. From Anantapur it is reported that there were no fires up to April 1st, but no information is given of subsequent periods. It is known, however, that some heavy fires have occurred.

47. Up to April 1st there were very few fires in the Nílgiris, but after that date they have been numerous, though not so much in the protected areas. The Kullar forest was several times fired by travellers on the ghât road but quickly extinguished. The Jakanari slopes suffered very badly as did those below Naduvatam, and in the Kundahs a few sholas were badly scorched. In and about the settlements fires were comparatively few and no damage was done.

48. The general results (form 62) show for specially-protected areas—

Number of acres attempted.	Fires.	Number of acres protected.	Cost.
ACS. 369,561	14,553	ACS 355,068	RS. 5,106

So that the area protected is 96 per cent. of that attempted and the cost per acre under 3 pie.

49. It is satisfactory that an early and heavy monsoon has now (June) put a stop to further fires, at any rate to fires likely to do much damage. But the hot season of 1886 must be recorded to have been the worst that has happened since this circle has been formed.

The Conservator has no information to add to that given by him in paragraph 49 of last year's report regarding areas which escape fire naturally.

50. *Grazing.*—In Ganjam and Vizagapatam no restrictions have yet been imposed and no fees collected. In Godávari Rs. 1,161 was collected in the upper taluks during the first five months of the year. The Collector reports (as he did last year also) that the collection was stopped in September 1885 by Government order, but the Conservator has no other information on the subject. He thinks it was a pity, for the chief cattle-owners are not, he believes, the Koyas, who generally own but very few cattle, and the introduction of large herds will not benefit the hill people, while it will have the effect of denuding the country.

51. The grazing in the Cocanada coast forests is sold by auction. In the Juddengy hills there is a good deal of grazing, but the cattle are from a distance and not the property of the ryots of the hill country. In Kistna the grazing sold for Rs. 34,008, which is little more than last year; that in Nellore was for the first time credited to "Forests" under recommendation of the Board. The principles on which grazing will be allowed in the future in the Cuddapah district were enunciated in recent orders of Government; and are, shortly, that in reserved forests whenever it can be done consistently with good forest management and with a maximum number of head of cattle per acre, areas will be opened for grazing on payment; that payment will be required in reserved lands; and that areas will be set apart besides for village forests and free village grazing. In respect to the grazing in Kurnool, there is nothing to add to the remarks made last year.

52. The Collector of Bellary reports that the proposed reserved forests were thrown open to grazing in consequence of the grass famine which prevailed, and that in consequence many cattle were saved that would otherwise have perished. They were again closed in December after rain had fallen. The leased forests were closed to grazing, but permits for grass-cutting were given and 5,347 cart-loads thus removed. The revenue was Rs. 2,005 from this source. In Anantapur all the reserved forests and proposed reserves were closed against grazing, but the removal of grass free was allowed everywhere and large quantities were thus taken.

53. In Nílgiris, the only forests closed against grazing so far have been the Cairn hill, Aramby and Governor's shola forests in Ootacamund and the Coonoor peak, Sim's park, Tiger hill, Ghât reserve and River reserve in Coonoor. Grazing was allowed on payment in the Dodabetta and Snowdon forests at Ootacamund and in the Lamb's rock and Blackbridge reserves at Coonoor. In all Rs. 53 were received. Elsewhere no restrictions have been placed on it, but it will now be necessary more definitely to settle the grazing arrangements and this will be more easily done when the village forests are made over to the monegars for management.

54 *Natural reproduction*—The Godávari District Forest-officer remarks that the natural reproduction of ironwood in the forests of Lakkonda, Juddengy and Tótapalle is as good as it is in Rékapalle (see paragraph 62 of last year's report). The Nellore District Forest-officer reports that the growth in fenced areas in Srîharikót continues to improve and the grass to grow well besides. He has fenced a further area of 2,000 acres, but finds it very difficult to keep cattle from breaking through, some twenty head being actually inside and difficult to get out. Next year, however, we may hope to hear some good results from this fenced area. In Nellore the District Forest-officer gives an interesting account of the results of coppicing in the casuarina plantations, part of which is here reproduced :—

"Some important results have been gained during the year in fixing the right time to cut the casuarina for coppicing. At Dugarázpatnam about 24 acres cut in February and March 1885 have coppiced fairly. After heaping earth round the stumps, they were watered slightly during May and June, and although many of the shoots which come out six weeks or so after cutting were burnt up by the hot wind, the ground is now about half stocked.

"There also in June 1885 I cleared ten rows (about three-fourths of an acre) of the oldest and best plantation by way of experiment.

"Over two-thirds of the stumps have coppiced well and the ground is fully stocked with these and with the suppressed trees, which were formerly planted between the original rows and which I of course left untouched

"At Tamminapatam I regret to record an almost complete failure to coppice after cutting the 133 acres which had to be cleared last year under the working plan. I selected the cool months before the rains as likely to give the best results, and although the felling lasted from September to the end of February, nearly all the work was done before the heavy rain began on 29th October. The stumps were left of various heights, great care was taken to preserve all branches within two feet of the ground. Most of the stumps sent out numerous shoots, but with scarcely any exception these withered away, being either drowned by water standing round the stumps or choked with excess of sap, the tops of all the stumps being covered with a dark green jelly which formed from the sap sweating out. The only stumps with healthy shoots are those cut in January and February, such few of the others as are now alive being unhealthy and likely, by all appearances, to die soon. The whole of the area cleared looks as if it had been swept by a fire, the rain having blackened the stumps and the leaves lying on the ground.

"After this experience it is evidently unsafe to cut from the beginning of September to the end of the year. Trees cut in June, July and August and in January and February may probably be expected to coppice well. The last two months should of course be avoided as the hot weather is rather trying.

On the whole the results seem to point to clearing clean and replanting after removing the stumps being a safer system of reproduction than coppicing.

55. The District Forest-officer of Cuddapah reports that the exclusion of goats from areas under special fire-protection is having a good effect, and that wherever the soil is fairly good, reproduction of red sanders, teak and *yellama* (*Anogeissus latifolia*) is good. Of course, reproduction will be slow in the Cuddapah reserves as the soil is so poor, but if fires can only be kept out and grazing checked the soil must improve and with it the growth of trees. He writes as follows regarding the coppice growth in the Ballipalle working circle :—

"The reproduction of the compartments hitherto cut over in Ballipalle working circle has varied considerably, partly in reference to the quality and degree of dampness of the soil, and partly in reference to the season of cutting. It seems probable that, for most species, a cutting during the rainy months gives the greatest chance of successful coppice growth."

56. The Collector of Bellary, in speaking of the opening of the proposed reserved forest to grazing, says that "he does not think much damage will result from cattle being allowed to graze in the reserves." In this apparently the District Forest-officer does not agree, nor does the Conservator in the case in point. Nearly all the proposed reserved forests in Bellary have at most only bushes or stunted trees on them, and seed reproduction is necessary. While the seedlings are growing, protection from cattle is

absolutely necessary; when they have grown sufficiently high, grazing may perhaps again be possible. It is greatly to be hoped that the future forests of Bellary, the basis of whose settlement has been now satisfactorily settled on paper, will be soon as equally satisfactorily settled on the ground and then a definite plan of operations can be made for the grazing as for the cuttings. The District Forest officer remarks, with reference to the growth of babul on black cotton soil waste lands, that the reproduction is good, but that on the poor soils the trees do not grow well; and says that if "large areas of good deep soil" could be got, babul forests could be speedily reared. It is little use crying for the moon: "large areas on good deep soil" are just the thing which the Forest department cannot get. Conservancy has begun so late in this circle that all such lands have long ago been taken up, and the department has now to content itself with the attempt to grow good trees on poor soil and to put up with a heavy expenditure when on better land a light cost would be sufficient. Such beautiful pieces of planting as the few acres of red sanders at Kodúr are only possible on very good soil, and though here and there in some of the Cuddapah valleys a few small patches of soil may be found, we can never hope to emulate in a sufficient area to make it a really valuable work, the plantation of 37 acres at Kodúr which has cost something like "Rs. 200" per acre. The only possible chance would be to buy land or lease land as at Nilambúr. Even if really good black soil land were available, it would probably be more advisable to give it for the cultivation of cotton or cholum than to grow babul, and so we must be content with doing our best with what we can get. The District Forest-officer of Anantapur reports favorably on the appearance of seedlings in the forests of that district and on the results of stopping the sale of bamboo for a time.

57. In the Nílgiris, the coppice reproduction in the compartments of shola cut at Aramby and Cairn hill has been very good, as has also that in the areas cleared in the Ghât reserve and Brooklands forest at Coonoor. It has been noticed this year that in the compartments cut in the blue-gum plantation at Governor's shola where the soil is very good and the weeds few, great numbers of naturally-grown seedlings have appeared. It is probable that blue gum will reproduce as well from seed as it does from coppice if only the ground is lightly hoed up after the fellings. This will be tried in the cuttings of the year at Aramby this season. The growth of blue-gum coppice continues to leave nothing to be desired.

58. *Artificial reproduction.*—The plantations in the Godávari district are reported in good order, but the cuttings ordered were not carried out. So much other work, however, of very considerably greater importance exists that delay will do no harm. The Godávari and Ganjam districts do not require plantations and all work should be concentrated on the demarcation and settlement of the fine natural forests and their gradual improvement and working. In the Kistna district six more "plantations" were got rid of during the year, the sales giving Rs. 610 for about 90 acres. The Collector reports that there were few or no trees in them, and perhaps this is why they have not appeared in the returns. The rest of the plantations appear to be in fair condition. Under the Collector's personal supervision a large nursery was formed at Masulipatam and an experimental garden of 46 acres made on the site of the old sepoy lines. A large variety of seeds was sown, the chief of which were the mahogany, of which 1,950 plants were reared and the small mahogany (*Swietenia pumila* of the Calcutta Botanical Gardens), of which there are about 100 plants doing well and growing fast. The mahogany were planted out in the 46 acres at about 54 feet apart, the spaces between being planted with margosa and other trees, and the results are said by the Collector to be most successful. The Conservator would like to have an area of some 500 to 600 acres at least planted. It is useless and a waste of money to make small experiments; the only way to really do any good is to make them on a sufficiently large scale. We have only too many small experiments of doubtful value on our hands as the relics of the jungle conservancy.

59. In the Nellore district the Iskapalle plantation, nominally 19½, really about 6 to 7 acres, was abandoned, the trees having previously been cut and sold. The yield was 107 tons, fetching Rs. 548. The older part of Allipuram plantation near Nellore was also cleared, yielding 139 tons fetching about Rs. 600 net. There was great difficulty in selling the wood in spite of the proximity of the plantation to

Nellore. It is only in Madras that casuarina wood finds a ready sale. The cocoanut garden in Kottapatam plantation was also given up as having proved unlikely to succeed except at a cost out of all proportion to the value of the trees.

60 The old plantations were carefully looked after and the cost of watering still further reduced. Mr. Vincent reports as follows :—

"The young existing plantations had of course to be kept alive, and I was compelled to water some of the three and four year old jungle conservancy plantations during May and June to prevent their dying out This year some of them are already beginning to look yellow, but as it is a useless waste of money to water plantations after the fourth year, they must take their chance in future.

"The plantations of 1883, which are passing through their third hot weather, are now only being watered on high ground, and I hope that those now two years old, planted in November 1884, will not require watering at all next year. On the whole the plantations made in 1883, 1884 and 1885 are looking extremely well, especially those of the two latter years, and comparison may now be challenged both for size of the trees and cost with planting in the better soil and climate near Madras."

61. In respect to the pruning, he says :—

"I think it well to place on record that all the lower branches should never be cut off if the trees are intended to coppice later. Removing a few appears to promote the growth of small branches, which afterwards become useful coppice shoots, and the growth of these close to the ground appears to be still further encouraged by clearing the stem of branches for about 18 inches, beginining at a height of one foot from the ground. The wood obtained by doing this is sufficient to pay for the cost of the work."

62. The extensions of the year amounted to 80 acres, and the work was all done with basket plants. In Dugarázpatnam 30 acres were planted and blanks filled up. In Kottapatam also 30 acres were planted ; and, in respect to the planting there done, the District Forest officer reports that he finds it best to do the planting in September, so that the plants get the full benefit of the monsoon afterwards. In Tamminapatam 10 acres were added, completing the available area at that place. Another 20 acres was planted at Chandrasikuppam on the coast of Sríharikót and the plants are doing well on 10 acres, the other 10 having been spoilt by the cyclone.

63. The total area of the casuarina plantations is now 2,004½ acres, and the expenditure of the year was Rs. 8,371. The average cost of the three chief areas viz., Dugarázpatnam, Kottapatam and Tamminapatam came to Rs. 79, 77 and 86 per acre, respectively. At the desire of the District Forest-officer, the following statement is given showing the area and cost of the different blocks up to date :—

Plantations.	Compartment number.	Area.	Year of planting.	Total expenditure up to date.	Cost per acre.	Yield—Thinnings dead-wood and selection fellings.	Clean fellings. Area.	Clean fellings. Tons.	Total.	Approximate net return. Rate per ton.	Approximate net return. Amount.	Remarks.
				RS.	RS.	TONS			RS.	RS.	RS.	
Dugarázpatnam.	1	45	1873	10,131	225	199	9¾	152	351	6	2,106	Nine acres entirely cleared and partly replanted ; ¾ acre coppice.
	Interplanted.		1874									
	2	26	1874	6,907	265	..	26	410	410	6	2,460	Clearedin 1884; stumps left to coppice on 20 acres.
	3	30	1875	6,448	215	..	30	754	754	6	4,524	
	4	59	1880	3,397	57	19	..	..	19	6	114	
	5	108	1881	4,416	41	25	..	..	25	6	150	
	1883	73	1883	2,162	29	..	..	..	..	..	..	Several compartments ; this shows the whole area of that year.
	1884	60	1884	1,376	23	..	..	..	..	..	..	
	1885	30	1885	350	12	..	..	..	..	..	..	
	Ebrows.	19	Resumed by Government under tope rules.				19	498	498	6	2,988	Entirely cleared; replanted in 1884, cost being included above.
Kottapatam ..	1	24	1873	6004	250	74	..	..	74	6	444	
	Interplanted.		1874									
	2	24	1874	6,536	272	..	..	..	..	..	..	
	3	32	1875	6,170	192	..	..	..	..	..	..	
	4	40	1880	3,082	77	1	..	..	1	6	6	
	5	112	1881	4,407	34	2	..	..	2	6	12	
	1882	16	1882									
	1883	22	1883	826	37	..	..	..	..	..	..	Several compartments, this shows the whole area of that year.
	1884	37	1884	795	21	..	..	..	..	..	..	
	1885	30	1885	317	10	..	..	..	..	..	..	

Plantations	Compartment number	Area	Year of planting.	Total expenditure up to date.	Cost per acre	Yield—Thinnings, dead-wood and selection fellings	Clean fellings			Approximate net return		Remarks
							Area	Tons	Total.	Rate per ton	Amount	
				RS	RS	TONS			RS.	RS	RS	
Chattram ..	Resumed by Government under tope rules ..							115	115	6	690	Cleared in 1884 and abandoned.
Pamanji ..								169	169	6	1,014	
Taminapatam .	1	45	1873	11,142	247	45	41	514	559	5	2,795	The whole cleared in 1885, stumps left for coppicing
	Interplanted		1874									
	2	59	1874	9,576	162	141	51	881	1,022	5	5,110	
	3	29	1875	7,878	271	150	22	488	638	5	3,190	
	4	64	1880	3,807	59	16	.	..	16	5	80	
	5	139	1881	5,862	26	22	..	..	22	5	110	
	1882	81	1882									
	1883	68	1883	1,642	24	..	..	..	..	.	..	Several compartments, this shows the whole area of that year
	1884	30	1884	669	22	..		..	..	.	..	
	1885	10	1885	181	18	..	.	..	..	.	..	
	..	4	1875	Resumed under tope rules			4	94	94	5	470	Stumps left to coppice
Vutukur .	1	32	1875	7,527	238	94	..	..	94	4½	423	
	2	32	1880	3,927	123	7	..	..	7	4½	31½	
	3	84	1881	4,512	54	8	.	..	8	4½	36	
Varany ..	1	40	1873	10,339	258	58	..	..	58	4½	261	
	Interplanted		1874									
	2	40	1874	8,911	223	115	..	..	115	4½	517½	
	3	40	1875	8,108	202	92		.	92	4½	414	
	4	40	1880	3,188	80	10	..	..	10	4½	45	
	5	80	1881	4,064	50	12	..	..	12	4½	54	
	1883	2	1883	41	10	..			..		.	
	1884	2	1884									
Northern Plantations.												
Tummalpenta	1	16	1873	12,676	294	20	.	..	20	5¼	105	
	2	13	1875									
	3	14	1878									
		43										
Ramapatam .	1	11	1873	19,423	590	296	.	.	296	6	1,776	
	2	11	1875									
	3	11	1878									
		33										
Kottapatam	Old tope	5	1868	14,549	440	30	..	..	30	5	150	
	1	8	1874									
	2	12	1876									
	3	8	1877									
		33										
Kanuparti .	3			16,407	410	180		.	180	5	900	
	4											
	7	4	1873									
	8	36	1875									
	9											
	10											
		40										

NOTE.—The northern plantations are said to have been made by the Salt department provided with funds from jungle conservancy This accounts for their enormous cost The high cost of compartments 1 to 4 in the southern plantations is owing to watering having been carried on when there was no necessity for it in order to utilize the budget credits These figures include all expenditure except the forester's pay

64. The District Forest officer of Cuddapah reports some damage to the Kamalápuram plantation from caterpillars. In about 26 acres 11,000 palmyra seeds were sown which are coming up. In other parts Vepa (*Melia indica*) and Dirisanam (*Albizzia Lebbek*) seedlings were planted out. The first attempt to grow Tangedu (*Cassia auriculata*) artificially was as reported last year in the Pullampet plantation. This year 38 acres of the plantation area were sown after ploughing partly broadcast, partly in furrows behind the plough. The broadcast sowings have been very successful. An attempt was made to utilize the natural grown seedlings of Red sanders which come up so profusely in the Kódúr plantation by basketting them and planting them out at Ballipalle. Careless work and want of supervision by the ranger led to the loss of many of them. Some more have been got ready for planting

this season, and the work will be continued. With care it should be a cheap method of restocking blanks. The usual measurements on 1st April were made in this plantation. The increase compares as follows with previous years :—

		Differences
1st April 1883	17·88	0·40
1st „ 1884	18·28	
1st „ 1885	18·75	0·47
1st „ 1886	19·02	0·27

giving an average yearly girth increment of 0·38 inches, equivalent to a mean annual radial increment of 0·06 inches, or nearly 17 rings per inch of radius, which is a very slow growth. However, the plantation undoubtedly requires thinning, and after that operation the growth will probably be faster. The average height appears to be 40 feet.

65. The mahoganies at Aremanabanda referred to last year are thriving on the whole. Out of the seed received from Kew through Mr. Lawson, 1,315 plants were obtained which are now being planted out. In several places in the forests seeds were dibbled in to restock blanks, but it is too early yet to report on success. On the bank of the Pennér river near Proddutur about 89 acres were sown with palmyra and date seeds, and these trees are coming on well.

66. During the year, on a site selected by the Conservator, a nursery was formed at Ballipalle where water was constantly available. The area is 1¾ acres, and the cost has been Rs. 250. Teak and Red sanders are the chief trees to be reared, and the seedlings are to be used for filling up blanks in the forests.

67. In the Horsleykonda nursery, with the exception of the plantings of exotics, which will be referred to later on, the work was merely a record of failure. Indeed, plantation and nursery work in the plains districts, except where officers who take a special interest in planting have the work immediately before them, is only a record of failures. This unsatisfactory result is due to the carelessness, want of energy and indifference of the subordinate staff, their objection to carry out orders and their fondness for imagining that any little excuse that can be framed will be accepted in lieu of work done. There are, of course, some notable exceptions among the rangers, but even some of those of the longest service are the worst in these respects.

68. The areas in *Kurnool* referred to in paragraph 71 of last year's report continue to do well. The District Forest-officer of *Bellary* reports that he made experiments in the sowing of seeds of trees in cactus bushes, but with only partial success. But it must be borne in mind that in such a climate seeds often lie dormant for long before a favorable opportunity for germination occurs, and therefore the results should not be despaired of because the first year apparently unsuccessful.

69. *Nilgiris.*—In Ootacamund the Aramby plantation was increased by 25 acres, partly bluegum, partly *Cryptomeria japonica*; 15,300 plants of the latter were planted, and up to March they looked very well. The extraordinarily dry season which ensued was however too much for them and about half were killed off. It is clear that the site was too dry. The bluegum did very well.

70. The Cairn hill plantation was increased by the following areas :—

	Conifers.	Others
Block I.	5½	2
Do. II.	18½	2
Do. III.	2	...
	26	4
Total ...	30 acres	

The total area of plantation has now been accurately ascertained to be 145 acres, the form has consequently been corrected up to 1st April. (It is in this way the Conservator proposes gradually to put all the areas right. Next year he hopes to be able to have it all done for Nilgiris). The vacancies in many of the blocks were also filled in and the number of plants put out altogether was Bluegum 22,000, Frenela 22,000, Maples (*acer Campbellii*) 4,000, other conifers (*Pinus maritima, longifolia* and *Kasya, Cryptomeria* and *Cupressus macrocarpa*) 1,900.

71. In the *Coonoor Peak* plantation 9,500 bluegum were planted to fill in some small outlying pieces on the edge of the old plantation. The correct area is now 202 acres. In the adjoining reserved forest, 2,500 Frenelas were planted to fill vacancies.

72. The other plantations were all looked after but no additions made. A land slip at Teppakutchi destroyed about half an acre with 50 trees.

73. The nurseries at Coonoor and Kullár in Coonoor range and at Aramby and Cairn hill in Ootacamund have been most useful and a new nursery is in course of progress at Lovedale.

74. The following form continues that given in paragraph 76 of last year' report :—

Name of plantation.	Area stocked up to 31st March 1886.	Receipts.				Cost.				Surplus or Deficit up to date.
		From the commencement up to 1876-77 (Estimate.)	1877—1885.	1885-86.	Total up to the end of 31st March 1886	From the commencement up to 1876-77 (Estimate.)	1877—1885	1885-86	Total up to the end of 31st March 1886.	
		RS.	RS.	RS	RS	RS	RS	RS.	RS	RS.
Governor's shola..	277	6,698	18,185	2,031	26,914	4,514	5,621	135	10,270	+ 16,644
Chemenguli ..	33	..	..	..	..	..	3,861	..	3,861	— 3,861
Muthanád ..	95	.	69	..	69	..	6,686	8	6,694	— 6,625
Brook lands ..	10	366	376	..	742	187	141	..	328	+ 414
Aramby . ..	198	..	7,750	1,651	9,401	2,150	6,995	1,749	10,894	— 1,493
Marliamund ..	11	..	78	..	78	205	625	..	830	— 752
Snowdon	7	506	350	..	856	130	84	..	214	+ 642
Cairn Hill ..	145	..	1,168	917	2,085	..	7,027	2,098	9,125	— 7,040
Devashola . ..	14	..	..	..	..	..	1,637	..	1,637	— 1,637
Blackbridge ..	56	..	..	..	..	1,040	881	..	1,921	— 1,921
Bleak house .. / Bandy shola ..	232	16,466	3,773	..	20,239	4,350	138	7	4,495	+ 15,744
Coonoor Peak ..	202	..	10,005	1,100	11,105	3,635	829	482	4,946	+ 6,159
Tippakutchi ..	35	..	21	..	21	650	133	..	783	— 762
Rallia	105	..	829	..	829	1,765	806	..	2,571	— 1,742
Total ..	1,423	24,036	42,604	5,699	72,339	18,626	35,464	4,479	58,569	+ 13,770

75. *Topes.*—This year the Form No. 61 has been reduced to merely a list by taluks. The Conservator visited those at Chatrapur in *Ganjam*, and found them in rather a wretched condition. They must be set to rights, vacancies filled up and extended, if possible, so as to join each other.

76. As last year the *Godávari* District Forest-officer gives no information about topes in his district, nor does the *Bellary* report give any information. Those in *Kistna* are reported to be in good condition. The topes in *Nellore* have been the subject of investigations by the Collector and District Forest-officer during the year, with reference to outstanding claims in respect to them on account of work done under the Jungle Conservancy department in former years. These investigations have given much trouble and the evidence given by the Sub-Assistant Conservator who was Wood Overseer in Nellore formerly has been unsatisfactory.

77. In *Cuddapah* the Bhakarapet tope was handed over to the Local Fund Board who repaid its cost, Rs. 153, and have built a chattram in it. The topes were kept in repair and vacancies filled in in some of them. In Appaiapalle tope a quantity of palmyra seed was sown which is germinating well. The expenditure was much reduced in consequence of the orders on economy. In *Kurnool* all but five of the topes are now managed by the village authorities. They are all in fair order. The District Forest-officer of *Anantapur* reports having visited about 100 of the so-called topes in his district during the year. He has still a great many to visit. The list is in a most incomplete state; a great many do not exist, many are omitted, and several are merely small patches of natural growth. We shall endeavour to get the list into better order during the current year.

78. The Conservator would be very glad indeed if he could give the assurance asked for by the Board in paragraph 15 of their orders on the annual report of last year and by His Excellency in Council in paragraph 14 of the orders of Government,

but at present it is quite impossible. He regrets to say that the statistics which he found on hand when he assumed charge of the combined Forest and Jungle Conservancy department were for the most part completely unreliable. There were plantations recorded as 20, 25 or 30 acres, but really possessing scarcely one acre covered with trees. There were plantations in which the area had obviously been computed from the number of trees planted, *including those used to fill vacancies.* For the plantations in Nílgiris and Cuddapah the areas have now been made fairly correct; for those in Nellore the District Forest officer has made corrections which bring the areas as near the truth as can be without survey. The rest may be said, with the topes, to be still unreliable. Considering the paramount importance of the work of selection, demarcation and improvement of reserved forests, the Conservator has thought it advisable not to waste time in troublesome inquiries concerning comparatively small matters like the topes and smaller plantations, but he is all the same most anxious to transform the inacurate into accurate statistics and revise and reorganize these small patches of forest property, giving up some, amalgamating others, making other reserves, and so on. But to ascertain areas correctly, it will in most cases be necessary to survey them, and this too will be arranged for, if possible. He hopes therefore that the Board and Government will have patience with the condition of the records and allow the infinitely more important work of the selection, demarcation and settlement of the reserves to have precedence over the revision of the smaller areas. That revision will not be neglected by any means, but will not be allowed to interfere with the prosecution of the more important, and indeed all-important work. Till the settlement work is over, professional progress, except in a small way, will be difficult.

79. (*g*) *Works of Improvement.*—As in former years seeds of various trees were dibbled into vacancies in the proposed reserved Forest in Kistna, but the information available is very meagre owing to the death of the District forest-officer near the end of the year. The areas will be inspected and reported on before the end of the current year.

80. At Sríharikót in Nellore a number of plants of *Eugenia* and *Pterospermum* were put out in October and are doing well. A large quantity, nearly 28 maunds, of seed was also sown, especially *Strychnos*, *Sapindus*, *Pterospermum*, *Xylia*, *Anacardium* and *Cassia auriculata*, the Tangedu. Only the latter has not come up well. Mr. Vincent reports that he finds that if the roots of the Narudu (*Pterospermum suberifolium*) are cut at a distance from the tree, good shoots at once come up, and he is endeavouring to encourage this by trenching round the trees. Sowings in prickly-pear bushes were made in the Kávali taluk, but were not very successful.

81. The District Forest-officer of Cuddapah reports that the creeper cuttings ordered at Horsleykonda were not carried out owing to the reductions. The Conservator thinks this was a pity as other less important works might have suffered reduction with less matter.

82. In the Bellary district creeper cutting was carried on in Rámandrug and 247 tons cut at a cost of Rs. 193. Sowings of seed in cactus bushes were also made as reported in paragraph 68.

In Muchikota forest in Anantapur creepers were cut by fire-patrols to a very large extent.

83. In the *Nílgiris* the creepers were cut in the ghât reserve over 64 acres at a cost of Rs. 258; the wood was pulled down and cleared out and the whole carried off on permit by the head-load daily fuel purchasers. Creepers were also cut in the Benne and Mudumalai plantations and in part of Dodabetta forests. Thinnings were made in the ghât reserve at Coonoor on about 3 acres giving 42 tons and all vacancies were filled up with maples and basketted shola plants. The same was done in Brooklands reserve on 7 acres, giving 79 tons. In these works all sound and good poles and saplings were left and the work was very well done and reflects credit on the Ranger. Compartment No. 2 in Bandyshola was also thinned and gave 56 tons. It is well here to mention that the use of the cross-cut saw has been permanently introduced for all the plantation felling works in the Nílgiris with the greatest advantage. And a proper system of charcoal making is in course of introduction. The result of the first

properly-made kiln was an outturn of 2,320 lb. of charcoal of *Acacia melanoxylon* of very good quality from 10,000 lb. of wood, equivalent to 23 per cent. But this was done since the close of the year.

84 (*h*) *Experiments and exotic trees.*—A supply of 24½ lb. of Mahogany seed was received from the Director of Government Parks and Gardens, Nílgiris, and 10 lb. from the Calcutta Botanical Gardens and distributed—2 lb. each to Kistna, Nellore and Ganjam, 6 lb. to Cuddapah, and the rest to Nílgiris. These latter were sown in a new and carefully-made nursery at Kullar at the foot of the Coonoor ghât and the seeds germinated profusely, and grew very fast. The plants are now being planted out on a piece of about 100 acres of land which lies in the valley of the Coonoor river and are doing very well. Those sent to Cuddapah were sown at Ballipalle and gave 1,315 plants, which are being planted out (see paragraph 65). From the seed sent to Kistna about 2,000 plants were reared under the supervision of Mr. Weld, the Collector, which are being planted at Masulipatam (see paragraph 58). The seed sent to Nellore was carelessly treated by subordinates, and only about 195 plants were reared, which have been carefully planted out. That sent to Ganjam was not properly treated and failed. Government have made arrangements for a further yearly supply of 10 lb. of seeds; and with care, it is now probable that we may succeed in satisfactorily growing this most valuable of all exotic trees. Another species, *Swietenia pumila*, of which seed was received from the Calcutta Gardens, is doing well in the Kistna district.

85. Of the *Rhus vernicifera* plants referred to in paragraph 91 of last year's report, a few in various places in Nílgiris are growing well.

86. *Eucalyptus.*—Seeds of *Eucalyptus Planchoniana*, *Microcorys* and *Baileyana* were received from the Director of Revenue Settlement and Agriculture and distributed to Kistna, Nellore, Cuddapah and Nílgiris. The two latter failed everywhere; the first-named germinated well but damped off much in the plains afterwards. In Nellore and Cuddapah a few plants were reared, and in the Nílgiris a fine batch which have grown well and fast and have been planted in the Coonoor Peak reserve. We have now at Horsleykonda planted out at about 4,000 feet, plants of *Eucalyptus goniocalyx*, *rostrata*, *Mahagoni*, *citriodora*, *Globulus* and *tereticornis* all doing well. But we have not succeeded in finding any species that grows well in the plains either on the coast or on the metamorphic plateau.

87. *Coniferæ.*—The *Frenela rhomboidea*, *Cupressus macrocarpa* and *torulosa* and *Pinus kasya* and *maritima* plantings in the Nílgiris have done well, but the drought of the hot season killed off a considerable number of the *Cryptomeria Japonica*, which had perhaps been put in too dry a locality. Of *Pinus densiflora* and *massoniana* we have a few plants which are doing well. Seed of *Pinus sinensis* and *insignis* has not yet been obtained.

88. By the kindness of Mr. D. E. Hutchins, Conservator of Forests, King William's Town, South Africa, seeds of *Pteroxylon utile* (sneezewood) in several batches, *Curtisia faginea* (Assegai wood), *Podocarpus latifolius* (yellow wood), and *Podocarpus elongatus* (outeniqua wood) were received, and sown mostly in the Coonoor nursery. Some seedlings of all the latter three have been raised. Of the first, however, so far all our attempts have failed, though the seed is quite good. At the Conservator's request the Director of Government Parks and Gardens also tried it under glass, but with no better success. It is a great pity; but if Mr. Hutchins sends us some more, the Conservator does not quite despair of growing it. It is a most valuable wood.

89. The maples from the North-east Himalaya (*Acer campbellii*, *lævigatum* and *Hookeri*) always come up very well, but the seedlings after being planted out seem tender to frost. We have received from the same quarter from Dr. King and Mr. Gammie of the Rungbee Cichona plantations seeds of *Bucklandia populnea* and *Quercus Griffithii*. Both have come up well and the plants of the latter are being put out in a special area in the Coonoor Peak reserve.

90. A new permanent nursery has been formed at Kullar and another is being made at Lovedale in Ootacamund, both in good sites, and proving, and likely to prove, most useful. The Coonoor nursery continues to do admirably under the ranger's very careful supervision.

91. The growing of indigenous shola trees in the Nílgiris has been very successful; the ones which grow best are *Eugenia Arnottiana* and *Michelia nilagirica* which happily are the two best indigenous timbers.

92. (*i*) *Communications and Buildings—Roads.*—In Ganjam the improvement of cart-tracks into the forests is in progress, but the orders on reduction of expenditure affected the amount done. Two pieces of important road were cleared at a cost of Rs. 140.

93. In Cuddapah the road from Mamillapalle to Rajamanipenta was continued for another 2½ miles, nearly all heavy hill work, at a cost of Rs. 913. In Kurnool work was restricted to the clearing of former cart-tracks, 73½ miles, at a cost of Rs. 367, mostly however with the primary object of being fire-traces. In Bellary the road along the boundary of the Rámandrug block was made as a work of demarcation.

In Anantapur, work was restricted to the upkeep and repairs of existing roads.

94. In Nílgiris the following work was done.—

	RS.
Aramby Reserved Forest—Old roads repaired and 3 furlongs new made for	271
Cairn Hill Reserved Forest—Old roads repaired and improved ...	61
Coonoor Peak Reserved Forest—Roads to Woodhouselee and Bandy-shola repaired and new culverts	171
Longwood Reserved Forest—Roads all repaired and made good ...	305
Mudumalai do. — Do. do. ..	288

In all districts the work of communications had to be stopped somewhat owing to the reductions of expenditure ordered by Government.

95. *Buildings.*—In Ganjam existing houses were repaired and a rest-shed built at Rodopodoro at a cost of Rs. 110.

96. In Godávari, the old Forest office at Wuddagudem was burnt down in January 1886 during the absence of the Sub-Assistant Conservator on tour. Mr. Stafford lost much of his property, and the fire is supposed to have been the work of an incendiary, but though the police station is not far off at Kunnavaram, nothing was found out. A temporary shed was erected in lieu of it at a cost of Rs. 70, and a better house will be built this year.

Work in the Cuddapah district was restricted to the repairs of existing houses and the erection of 23 guards' huts at a cost of Rs. 20 each.

97. In the Kurnool district, by the exertions of the late District Forest-officer, Mr. Sim, the following rest-houses were finally completed, including those done in previous years :—

	RS.
Bainuti	1,350
Rollapenta	1,640
Addutla	940
Pecheruvu	280
Yenugalayya	300
Gundla Brameshwar	300
Karadulagundam	375
Rudrakodu	275
Buggapenta	260
Talugulu	230
Mallalamma	200
Baireni	230
Baswapuram	320

Thirteen in number. The remaining seven are still under construction. Range-houses were also built at Velgode (Rs. 350), Krishnamchettipalle (Rs. 516), Dornal (Rs. 290), besides several guards' and tannahdars' huts. Necessary repairs were also done. The Nandyál head-quarters bungalow had to be postponed owing to the reduction orders.

98. In Bellary, a range-house was built at Sandur at a cost of Rs. 460, and in Anantapur the Konapanainopalle house was repaired, and the head-quarters bungalow nearly finished.

99. In Nílgiris, the range-house at Melúr was completed for Rs. 108. The range-houses at Mudumalai, Benné and Naduvatam were repaired and other minor works carried out at a total cost of Rs. 395.

In respect to houses, also, the work of the year suffered by the reductions of the budget provision.

100. *Boats.*—In the Nellore district four boats were completed during the year, viz. :—

				RS.
Two	20 tons open cargo boats each at	... ...		553
One	16 do.	top boat for produce at	... ...	827
One	9 do.	do. for produce at	... ...	407

The District Forest-officer reports that a great saving was effected in the use of these boats, the first two having saved Rs. 90 on the whole in nine months.

101. *Tramway.*—Two sections of tramway line, each 1⅛ miles, were purchased during the year from Messrs. Fowler and Co. at a cost of Rs. 6,815 and 6,751, respectively. The first section received was set up for the Tamminapatam plantation and the second at Srîharikót. The latter was too late for much of the year's working. The results of the work for the year under review are as follows :—

	RS.
Cost of 1⅛ miles of tramway line	6,815
Carriage to forest	140
Laying line	60
Total ...	7,015

The work done during the year was the carriage of 2,000 tons casuarina fuel aô Tamminapatam at a cost of Rs. 327, or Rs. 340, including cost of relayings. Had this fuel been carted in the ordinary way it would have probably cost Rs. 2,000, so that the saving by the tramway has been about Rs. 1,660. If we deduct from this a percentage of 2½ per cent. (equivalent to 10 per cent. per annum or 10 years' purchase) of the capital cost, we have a saving of Rs. 1,485 for three months' work only.

102. The Conservator hopes that before long the department will, by the completion of settlement and other preliminaries which now take up the District Forest-officer's time entirely, be able to set up such a line from Jirigopa to Lakewaram along the foot of the Rékapalle hills for the extraction of iron-wood and other timber, the difficulties in respect to which are now very great. The first thing to make is a road along which it can be laid and that will soon be started. In Kurnool some miles of line to bring fuel to the railway in the Nandíkanama pass would be most valuable and save much of the present difficulty, which is labor and an unhealthy locality. It is probable, too, that similar lines will well pay their expenses in the Aramby and Coonoor Peak Plantations on the Nílgiris.

CHAPTER V.

YIELD AND WORKING.

(1) *Departmental Work.*

103. Form No. 68 gives the trees felled by departmental agency duirng the year as 15,091 as follows :—

Teak	285	* Yepi	380
Sál	296	† Yegi	122
Blackwood	84	‡ Chiriman	91
Satinwood	6	§ Nallamaddi	328
Ebony	4	Palmyra	36
Red sanders	2	Eucalyptus	9,415
Iron-wood	2	Acacia	79
Cotton tree	255	Casuarina	1,761
Margosa	20	Miscellaneous	1,695
Babúl...	230	Total ...	15,091

* *Hardwickia binata*
† *Pterocarpus Marsupium*, known locally as Piasál (Uriya), Yegi (Telugu), Vengai (Tamil)
‡ *Anogeissus latefolia*, known locally as Dhau (Uriya), Chiriman, yellema (Telugu), Matti (Tamil).
§ *Terminalia tomentosa*, known locally as Sajo (Uriya), Nallamaddi (Telugu), Matti (Tamil).

These details are given in order to show to some extent the demand. The teak was all cut in Nílgiris, the sál in Ganjam, the casuarina in Nellore, the eucalyptus and acacia in Nílgiris. The cotton tree logs were cut for floats and for light planking for rafts at Gopálpur, the babúl, mostly in Anantapur, for the sake of the bark.

104. Form No. 69 shows the timber and other produce cut and collected by Government Agency and its disposal either by sale or otherwise. The amount collected was:—

District.	Timber.	Fuel and dry woods	Bamboos	Minor produce
	C. FT	TONS.	NOS	MDS
Ganjam	44,918	..	..	..
Godávari	15,905	1,256	5,564	..
Nellore	5,985	6,808	..	1,815 of 25 lb.
Cuddapah	..	2,162	1,368	122 of 25 ,,
Bellary	225	1,258	.	177 of 40 ,,
Anantapur	423	9	..	1,710 of 40 ,,
Nílgiris	18,870	4,407	..	1,525 of 25 ,,
Total ..	86,326	15,900	6,932	5,349

105. This may, as was done in paragraph 109 of last year's report, be rendered thus in tons:—

	TONS.
Timber, 86,326 cubic feet at 50 cubic feet = 1 ton	1,727
Fuel and red sanders	15,900
Bamboos, at 75 = 1 ton	92
Minor produce in tons...	72
Sandalwood, 910 maunds of 25 lb.	10
Total ...	17,801

which is rather a falling off on last year.

106. The chief collections were: in Ganjam the sale of dry logs in the forests and the bringing out of a few new good ones of large size; in Nellore, fuel and minor produce; in Cuddapah, red sanders wood, 2,162 tons; and in Nílgiris, timber from the Benné and Mudumalai forests. The sales in the forests were larger than usual. In Ganjam the sál wood was to a great extent sold in the forests to Messrs. Minchin and Co. and Harden and Co. This, in the present state of our establishment, is a great saving of time and labor, and it is to be hoped that by degrees all sales will be from the forests direct. In Nílgiris also nearly all the timber cut was sold in the forests.

107. Form No. 70 shows the receipts and issues of timber, &c., in sale depôts. The amounts received and disposed of during the year come to—

Timber, &c.

	Received		Disposed of	
	NO.	C. FT.	NO.	C. FT.
Ganjam	9,502	39,122	11,773	46,609
Nellore	4,646	3,431	4,692	3,213
Cuddapah	..	80,827	...	80,715
Anantapur	...	...	477	40
Nílgiris	4,735	2,367	4,475	2,237
Total ...	18,883	125,747	21,417	132,814

Fuel.

	Received.	Disposed of
	TONS.	TONS.
Nellore	6,798	6,775
Bellary	..	115
Nílgiris	1,160	746
Total	7,958	7,636

Bamboos.

	NO.	NO.
Cuddapah	2,448	38,644

Minor produce.

	MDS.	MDS
Nellore	3,130	3,374
Cuddapah	127	926
Bellary	77	.
Anantapur	482	766
Nilgiris	484	483
Total ...	4,300	5,549

which we can thus, as before, render approximately in tons as—

	Received	Disposed of
Timber	2,515	2,656
Fuel	7,958	7,636
Bamboos	33	515
Minor produce	48	63
Total ...	10,554	10,870

108. Form No. 71 shows the sales of timber, *first*, from depôt; *secondly*, from the forest directly; and *thirdly*, from drift. The Conservator has omitted the entry of confiscated wood which would have entailed doubling the size of the form for the sake of a number of very petty and unimportant items. The following abstract of the form shows the sales of the year :—

Timber.

District	Depôt		Local		Drift		Total	
	C FT	RS	C FT	RS	C FT	RS	C FT	RS.
Ganjam	32,473	11,690	44,340	11,501	..	..	76,813	23,191
Godávari		..	..	..	12,117 3,788	5,686 1,453	15,905	7,139
Nellore	1,259	722	4,335	1,292	..	.	5,594	2,014
Cuddapah	80,715	34,272	139	72	..	..	80,854	34,344
Bellary			225	9	..	..	225	9
Anantapur	40	28	548	104	..	..	588	132
Nilgiris	2,372	873	15,625	8,117	..	..	17,997	8,990
Total ..	116,859	47,585	65,212	21,095	15,905	7,139	197,976	75,819

Fuel.

District	Depôt.		Local		Drift.		Total	
	TONS	RS	TONS	RS	TONS.	RS.	TONS	RS
Godávari	..	.	1,629	3,975	..	..	1,629	3,975
Nellore	6,775	51,418	414	2,672	..	..	7,189	54,090
Cuddapah	..	..	4	9	..	..	4	9
Bellary	106	166	258	771	..	..	364	937
Anantapur	..	..	9	34	..	..	9	34
Nilgiris	565	3,936	2,632	12,314	..	..	3,197	16,250
Total ..	7,446	55,520	4,946	19,775	..	..	12,392	75,295

Bamboos.

District	Depôt		Local.		Drift.		Total.	
	NO	RS	NO	RS	NO	RS	NO	RS
Godávari	..	..	..	..	5,564	137	5,564	137
Cuddapah	35,747	514	620	11	..	..	36,367	525
Total ..	35,747	514	620	11	5,564	137	41,931	662

Sandalwood.

	Sold locally.	
	MDS.	RS.
Nilgiris	910	3,081

Minor produce.

District.	Depôt.		Local.		Drift.		Total.	
	MDS	RS.	MDS	RS.	MDS.	RS.	MDS.	RS
Nellore	3,262	4,248	89	69	..	..	3,351	4,317
Cuddapah	926	388	89	3	..	..	1,015	391
Bellary	..	..	56	25	..	..	56	25
Anantapur	194	139	31	32	..	..	225	171
Nilgiris	478	296	1,050	630	..	..	1,528	926
Total ..	4,860	5,071	1,315	759	..	..	6,175	5,830

109. Reducing all to tons we have—

	C. FT.	TONS.	RS.
Timber	197,976	3,960	75,819
Fuel	..	12,392	75,295
Bamboos	41,931	559	662
	at 75 per ton.		
	MDS.		
Sandalwood...	910	=10	3,081
Minor produce	6,175	=69	5,830
Total ..	.. .	16,990	160,687

or an average receipt of nearly Rs. 10 per ton, which is rather less than last year's receipts of Rs. 12 per ton. The maund has been taken at 25 lb., and the estimates made as they were last year (see paragraph 117 of last year's report). The total amount of material sold is greater than last year, especially in fuel and bamboos.

110. Form No. 73 shows the difference in value between the stock on hand at the beginning and end of the year in—

District.	On hand at commencement of the year.	On hand at close of the year.	Difference
	RS.	RS.	RS
Ganjam	5,757	688	— 5,069
Nellore	6,040	6,469	+ 429
Cuddapah..	1,006	52	— 954
Bellary	583	552	— 31
Anantapur	..	549	+ 549
Nilgiris	87	2,825	+ 2,738
Total ..	13,473	11,135	— 2,338

111. The result of five years' work in Ganjam was shown last year. This year arrangements have been made to stop departmental sleeper cutting and sell timber as much as possible in the forests. The result of the year has been the sale of 76,813 cubic feet of timber for Rs. 23,191, or 4 annas 9 pies per cubic foot, for sales half of which were in the forest and cost nothing and the rest almost at depôt. The prices obtained are low, but they are market rates, and though depôt sales ought perhaps to command a higher price, forest sales are at as high a rate as is at present obtainable. The great difficulty the dealers find in the export of Ganjam timber lies in the heavy freight charged by the British India Steam Navigation Company and their constant refusals to ship, causing long delays.

112. In the Cuddapah district, 2,165 tons of red sanders wood were brought to depôt and 2,162 tons sold. The cost of bringing to depôt was Rs. 13,583, or Rs. 6-3-0 per ton. The receipts were Rs. 36,970, or, omitting Rs. 2,700 due for the previous

year, Rs. 17-1-7 per ton, showing a profit of Rs. 10-14-7, which shows that the profit is steadily increasing, and this on a transaction which is merely a clearance of old stumps and roots.

113. The bamboos brought out last year were sold during that under review. The financial result of the transaction was—

	RS.
Cost of extraction of 30,560 bamboos	491
Price realized	544
Profit ...	53

a small profit but good as a commencement, and for what are really merely thinnings. It is expected that the demand will steadily improve when the value of these fine bamboos is better known.

114. In Nellore 4,254 tons of fuel were sent to depôt during the year, of which about 800 tons were from the wind fall trees blown down in the cyclone. The cuttings were made in Venád island and Khandam No. 1 for green wood and in Khandams 5, 6 and 7 for windfall wood. From the casuarina plantations 2,715 tons were cut in regular cuttings and 516 tons in dry trees.

115. The Collector and District Forest-officer have not yet carried out the recommendations of the Conservator, of which the Board approved, of selling the wood on the canal bank instead of at depôt.

116. In the Nílgiri district the cuttings of timber were nearly all sold in the forests. And for fuel a new system was introduced under which instead of delivering the fuel required for the supply of the settlement of Ootacamund and Coonoor at houses at fixed rate, sales by tender of cut wood were made in the forest. The new system has been so far successful, but naturally the sales are less in amount than formerly in consequence of the new system placing private and Government wood on the same footing and the depression in the Nílgiris causing owners of planted trees to try to realize. The chief cuttings were, as usual, under the working plans referred to in paragraphs 30 to 34.

117. The new system of sale has the great advantage that the rates fix themselves. The wood cut is stacked in stacks of each 100 cubic feet and twice a month sales are held by tender of ten stacks or more. On the dates fixed the tenders are opened and the highest tenders accepted. In this way the market rules the rates and the whole trouble of delivery at houses is saved.

118. In regard to the sales of *minor produce*, the chief circumstance worth note is that in Nellore the effects of the cyclone of 1884 are still felt. No tamarind could be obtained and in other items there was a falling off. In Cuddapah the beleric myrabolams cut in the previous year were sold, the financial results of the extraction and sale of 810 maunds being—

	RS.
Cost of collection	219
Realised	305
Profit ...	86 or 1 anna 8 pies per maund.

(2) *Removal by Purchasers.*

119. Form No. 72 gives the items of sales direct from the forests. In continuation of the remarks made by him in paragraph 128 of his report for last year, the Conservator has again to draw attention to the discrepancies between the returns supplied by District Forest-officers and the Revenue summaries. It is impossible in his office to correct these returns, and he is obliged to give the figures as sent to him. The inaccuracy may be due to the fact that the finally-audited figures of the year were not before District Forest officers when they wrote their reports.

120. The results for the year, taking the Form 64 figures, compare thus with 1884-85 :—

	1884-85.	1885-86
Ganjam...	11,648	15,644
Vizagapatam	2,416	3,886
Godávari	46,846	47,554
Kistna	54,220	55,271
Nellore	12,885	7,959
Cuddapah	105,645	126,235
Kurnool	74,174	71,625
Bellary	17,089	17,539
Anantapur	13,277	14,334
Nílgiris	18,089	8,808
Total ...	356,289	368,855

showing an increase in most districts.

121. That in Ganjam is attributed to the decrease of petty theft and the improvement of the protective establishment. The increase in Kistna is attributed to larger revenue from sale of trees on "durkhast" lands. The decrease in Nellore is due to the less amount required for the Sangam works. The good increase in Cuddapah comes from the better sales of bamboos and "Tangedu" bark and of the fruits and leaves of scattered trees. In Anantapur the increase is due to an improved system of sale of "Tangedu." The large decrease in Nílgiris is attributed to stoppage of sales on permit from Mudumalai, but the Conservator is unaware why this stoppage was made at any rate as regards dry wood.

122. The revised schedules of rates are still under the consideration of Government.

123. The sales of dead-wood from the old reserved forests of Cuddapah was as follows :—

—	Tons.	Rate per ton.	Amount.
		RS A. P.	RS
Ballipalle .. East	770	2 0 0	1,540
Ballipalle .. West	435	1 10 0	707
Vagetikona	650	1 10 0	1,056
Kódúr hill	300	1 12 0	525
Do	125	1 0 0	125
Gadela	87	1 0 0	87
Yerraguntlakota	60	1 0 0	60
Horsleykonda	25	2 0 0	50
Total ..	2,452	..	4,150

being a decrease on last year, due merely to the fact that the wood has been now nearly all worked out. The average per ton was Rs. 1-11-0, a small decrease on last year.

124. The sales of engine fuel to the contractors of the Madras Railway amounted to Rs. 37,116 for 16,585 tons. Cuttings were made as follows :—

Range.	Forest	Number of tons	Rate.	Amount.	Remarks
			RS A. P	RS	
Kódúr	Open forest	9,287	2 3 10	20,789	
Do	Ballipalle working circle ..	* 1,068	2 4 6	2,435	* Includes 528 tons belonging to the cuttings of 1884-85.
Rájampet	Open forest	1,371	2 3 10	3,070	
Sidhout	Do.	4,830	2 3 10	10,822	
	Total ..	16,555	..	37,116	

125. *Free grants.*—The District Forest-officer of Vizagapatam reports that free grants of forest produce have been very extensive, especially in Pálkonda range and Golgonda. The tahsildars are in the habit of granting free passes to any one who

applies. This is contrary to the rules and should have been stopped by the Collector and free grants restricted to cases of real hardship only. From Kistna district it is reported that sixteen cart-loads and fifty four head-loads of wood and sixteen palmyra trees were granted free, mostly in cases where houses had been burnt. The Collector of Cuddapah reports, as last year, that statistics cannot be given, but that free grants were restricted to cases of calamity from fire. The unreserved forests in Cuddapah are extensive and the removal of wood for fuel, implements, &c., is free in them under the rules. The Collector of Kurnool reports that materials were given for 218 burnt houses as well as 240 cart-loads of firewood and 389 of thorns for fencing. For the Nílgiris eighty trees and forty head-loads of wood were granted for building purposes. From other districts no information was received.

126. *Drift and confiscated wood.*—The collection of drift wood in Godávari amounted to 12,117 cubic feet of teak and 3,788 cubic feet of other wood, all of which was sold for Rs. 7,139. In other districts the amount of drift collected was very small. In all districts a certain amount of confiscated wood was sold. The total revenue of drift and confiscated wood was Rs. 9,369.

CHAPTER VI.

FINANCIAL RESULTS.

127. In Form 64 is given the summary of revenue and expenditure of the year, the results being—

	RS.	RS.
Revenue		5,46,282
Expenditure—A	188,930	
B	212,887	
		4,01,817
Surplus ...		1,44,465

a result which differs only slightly from that of last year. The *net* revenue is 26·4 per cent. of *gross* revenue. The reductions made in the estimates during the year on account of financial pressure have decreased the expenditure under A considerably, and have to some extent affected the revenue.

128. The comparison of revenue and expenditure for the districts is as follows :—

Districts.	Revenue.	Expenditure.	Surplus or deficit.
	RS.	RS.	RS.
Direction	246	47,415	— 47,169
Ganjam	38,715	25,995	+ 12,720
Vizagapatam ..	3,938	7,175	— 3,237
Godávari	60,566	17,943	+ 42,623
Kistna	63,110	24,619	+ 38,491
Nellore	71,398	77,198	— 5,800
Cuddapah	1,62,673	65,351	+ 97,322
Kurnool	72,617	34,913	+ 37,704
Bellary	18,878	25,434	— 6,556
Anantapur	15,096	15,162	— 66
Nílgiris	39,045	60,612	— 21,567
Total .	5,46,282	4,01,817	+1,44,465

Compared with last year (see paragraph 151 of last year's report) it is noticeable that it is in the same districts that the surplus or deficit occurs. In Nellore and Nílgiris the deficit is due to demarcation, road and other capital charges. To get the Nílgiri forests to pay their expenses properly roads are urgently wanted, and even more money requires to be spent on them. In Nellore the cost of 2¼ miles of tramway came in. About other districts there is not much to remark. The financial position of the Forest department cannot be properly gauged until the reserved forests and other preliminaries are settled, and the staff becomes more professionally efficient.

129. Form 67 gives the distribution of revenue and expenditure under the three heads of "Departmental timber works," "Other revenue" and "Improvement of forests." The amount debitable to the first head under the usual distribution (which is

the same as last year) is rather high and the surplus small. It is noticeable that there is a deficit in Nílgiris due to the large necessary expenditure on communications.

130. Form 65 shows the liabilities outstanding against contractors and disbursers, chiefly the latter, showing a balance in favor of the department of Rs. 9,386. These outstandings, now that they are kept properly on record, will be inquired into and kept low.

131. Form 66 shows the outstandings of revenue amounting to Rs. 5,840, mostly in the Ganjam, Nellore and Nílgiri districts. These are due to payments for large supplies not sometimes coming in at the proper time. In Ganjam the outstandings are due from Messrs. Harden, Duffield and Co. of Gopálpur, chiefly, in Nílgiris from Messrs. Groves and Co., both large purchasers of timber.

132. Forms 73-A and 73-B show the comparison between the values of (1) timber, &c., and (2) stores, tools and plant at the beginning and end of the year.

The true value of the year's transactions therefore is—

	RS.
Net Revenue	1,44,465
Outstanding do.	+ 5,840
Do. advances	+ 9,386
Value of timber	— 6,067
Do. of stock	+ 24,259
	1,77,883

133. *Elephants.*—Form 74 gives the particulars of these. The two animals are very poor ones and seem to have been transferred to the Nílgiris in 1882 as unsuited to the Anamalai work. Two animals were caught in pit-fall traps during the year, but damaged themselves, and, in spite of care, died very shortly after capture. The pit-trap system is not a good one for the purpose, and the Conservator does not wish to see it resorted to again. But wild elephants are getting very numerous, troublesome and destructive in the Mudumalai forest, and if Government could see its way to allowing them to be thinned out, or to the establishment of proper Kheddah operations, it would be well. The young elephant, born in captivity, is doing well.

CHAPTER VII.

GENERAL REMARKS.

134. The Conservator visited during the year the districts of Ganjam. Cuddapah, Kurnool, Bellary and Nílgiris. He also inspected the offices of these districts and of Godávari and Anantapur. In December 1885, January and February 1886, he was on privilege leave, when Mr. A. W. Peet acted as Conservator. During the nine months the Conservator was in charge, he spent 82 days in camp away from Madras or Ootacamund. The Acting Conservator was out for 41 days—total 123.

135. The following schedule shows the tours made by District Forest officers during the year :—

Districts.	Names of officers.	Number of days	
		In charge.	On tour.
Ganjam ..	Mr. A W Lushington, Assistant Conservator .	365	176
Vizagapatam .	Somasundra Mudaliar, Sub-Assistant Conservator..	205	84
	Mr Sweet, Assistant Conservator	160	85
Godávari ..	,, Stafford, Sub-Assistant Conservator .. .	96	93
	,, Homfray, Assistant Conservator	98	39
	,, Battie, ,, ,, ...	171	92
Kistna ..	,, Boileau (deceased), Deputy Conservator ..	216	148
	The Collector	149	82
Nelloro ..	Mr Vincent, Deputy Conservator	365	228
Cuddapah ..	,, Higgens, ,, ,, ...	365	189
Kurnool ..	,, Sim, ,, ,, ...	334	228
	,, Lerosche, Assistant Conservator	31	10
Bellary ..	,, Battie, ,, ,, ...	182	93
	,, Brougham, ,, ,, ...	183	116
Anantapur ..	,, Brougham, ,, ,, ...	20	.
	,, Lodge, ,, ,, ...	345	209
Nílgiris ..	Colonel Jago, Deputy Conservator	365	160

The Conservator is satisfied with the amount of tour work done.

136. The Conservator regrets to have to note the death during the year of Mr. E. H. Boileau, Deputy Conservator in charge of Kistna, on 3rd November 1885. He was a hard-working officer, but for some time had been in bad health, in spite of which his conscientious regard for his duty kept him on tour. His last inspection of the coast forests brought out much interesting information regarding them. During the year also Mr. H. A. Sim, C.S., was retransferred to the Revenue department as Principal Assistant Collector, Malabar, and Acting Sub-Secretary to the Board of Revenue. The good work done by him while in charge of the Kurnool forests will long show its effects. He was most successful in breaking up the smuggling confederacy, stopping the malpractices of Railway contractors, in opening up the Nallamalais, obtaining the friendship of the Chentzus, making good temporary rest-houses and re-organizing the staff.

137. Mr. Higgens, C.S., still remains in the department. His services in the Cuddapah district till the completion of forest settlement are almost indispensable. He has worked with his usual energy and zeal.

Mr. Vincent has, as usual, done good work. The Conservator would have liked to have seen the selection of reserved and village forests pushed on faster, but he accepts the excuse given of the difficulty of working the plantations, the intricate settlement of Srîharikót, the troublesome inquiries into old topo claims, and the general badness of the subordinate staff. Mr. Hooper still continues on leave, but while on leave has been deputed by the Colonial office to advise the Government of Jamaica regarding forest conservancy in that colony. Mr. Lushington has worked in Ganjam with much energy; the slowness in the constitution of reserved forests is of course detrimental to more extended timber work, still a great deal has been done, and Mr. Lushington deserves credit for it. Mr. Homfray was appointed during the year to act as Examiner of Forest Accounts *vice* Mr. Douglas on leave. Mr. Lodge has worked well in the Anantapur district and Colonel Jago and Mr. Battie to the Conservator's satisfaction.

138. Mr. C. L. Toussaint, Sub-Assistant Conservator, joined his appointment as in charge of the Cuddapah sub-division at the end of the year after having passed with credit from the Forest School at Dehra Dun. Mr. M. H. Tweedie failed to pass, but as he was well reported on by the Director, he was allowed to join as a forest ranger. The Collector and District Forest-officer of Nellore have reported unfavorably of the work done by Sub-Assistant Conservator, Somasundra Mudaliar, and the Conservator agrees in their condemnation. Forest rangers, Mr. Newman, Mr. Gaudoin, Nallasawmy Naidu, P. Strinivasa Row (since deceased), Visvanatham, Nagaraju and Kodunda rama Mudaliar have been well reported on, and the Conservator again cordially recognizes the assistance given him by all his office staff, some of whom have however been very ill during the year.

139. The health of the establishment has not been good, nor will it generally improve till the officers and subordinates are better housed in camp. Some parts of the Northern Circle are among the most unhealthy tracts in India, and most especially bad are the hills of the Northern Circars, the Nallamalais and the South-east Wynaad.

140. Large collection of produce, chiefly manufactured articles, were sent in December to the Inspector-General of Forests for the Indian and Colonial Exhibition in London.

141. The annual reports of all districts were better done, but still the preparation of returns shows in some districts much want of care and accuracy. If District Forest-officers would simply make out district returns exactly on the model of those given in the circle report, all would be done that is necessary. Mr. Vincent's report from Nellore was especially interesting. The reports of Nîlgiris and Ganjam were received very late; the former on 2nd July, the latter on 16th July, to the Conservator's very great inconvenience and the delay of his own report.

ANNUAL FORM No. 59-A.

Forest Department, Northern Circle, Madras.

Area of Reserved Forests under the Forest Act, 1885-86.

District.	Range.	Name of Forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of Notification of addition or transfer.	Remarks.
			Acres.	Equivalent in Square miles.	Acres.	Acres.	Acres.	Equivalent in Square miles.		
Cuddapah	Kódúr ..	Kódúr Plantation ..	50	..	..	..	50	..	No. 39 of 6th March 1884.	
		Thunakonda ..	1,048	2	..	..	1,048	2	No. 39 of 6th March 1884.	
		Uparapalli Plantation.	108	..	..	..	108	..	No. 223 of 25th November 1884.	
	Rájampet..	Pullampet Plantation.	328	½	..	..	328	½	No. 170 of 6th September 1884.	Rectification. The area was wrongly given last year by mistake.
		Mittamidapalle Plantation.	924	1½	..	826	98	..		
		Total, Cuddapah ..	2,458	4	..	826	1,632	2½		
Anantapur.	Anantapur.	Anantapur Plantation.	..	..	131	..	131	..	No. 63 of 14th January 1885.	From 1st May 1885.
	Gooty ..	Khojjapalle ..	..	..	367	..	367	½		
	Hindupur..	Somarajmalai ..	..	..	1,920	..	1,920	3	No. 225 of 1st August 1885.	From 1st October 1885.
	Penukonda.	Narasampalli ..	..	..	1,280	..	1,280	2	No 346 of 5th December 1885.	From 1st February 1886.
		Total, Anantapur ..	..	..	3,698	..	3,698	5½		
Nilgiris.	Ootacamund.	Marliamund Plantation.	17	..	..	..	17	..	No. 231 of 1st December 1884.	
		Aramby	..	..	430	..	430	½	No. 143 of 28th April 1885.	From 1st June 1885.
		Therma tope ..	64	..	..	..	64	..	No. 88 of 14th March 1885.	
		Marliamund ..	75	..	..	..	75	..		
		Nergodumand ..	..	..	55	..	55	..	No. 281 of 21st September 1885.	From 1st November 1885.
		Muthanád	420	1	..	..	420	1	No. 84 of 14th March 1885.	
		Brooklands.. ..	177	½	..	..	177	½	No. 84 of 14th March 1885.	
		Cairn hill	405	1	..	..	405	1	No. 231 of 1st December 1885.	
		Bathri shola ..	34	..	..	..	34	..	No. 88 of 14th March 1885.	
		Baikie	..	..	199	..	199	½	No. 143 of 28th April 1885. No. 281 of 21st September 1885.	Part from 1st June 1885, part from 1st November 1885.
		Fairlawns	..	..	89	..	89	..	Nos. 281 and 282 of 21st September 1885.	From 1st November 1885.
		Madana	..	..	31	..	31	..	No. 281 of 21st September 1885.	Do. do.
		Manjinikorai ..	..	..	17	..	17	..	No. 141 of 28th April 1885.	From 1st June 1885.
		Lovedale	..	..	202	..	202	½		
		Elk hill	..	..	77	..	77	..		
		Craigmore	..	..	299	..	299	½		
		Mainalai	..	..	115	..	115	½	No. 281 of 21st September 1885.	From 1st November 1885.
		Dodabetta	..	..	329	..	329	½	No. 141 of 28th April 1885. No. 281 of 21st September 1885.	From 1st June 1885. From 1st November 1885.
		Doddahalla sholas..	..	..	23	..	23	..	No. 281 of 21st September 1885.	Do. do.
		Kotagiri Trace sholas.	..	..	51	..	51	..	No. 141 of 28th April 1885.	From 1st June 1885.
		Woodcock sholas ..	..	..	24	..	24	..	No. 281 of 21st September 1885.	From 1st November 1885.
		Snowdon	..	..	1,053	..	1,053	2	No. 141 of 28th April 1885.	From 1st June 1885.
		Cully	..	..	71	..	71	..	No. 143 of 28th April 1885.	Do. do.
		Governor's shola ..	..	..	33	..	33	..		

Area of Reserved Forests under the Forest Act, 1885-86—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1885. Acres.	Area on 1st April 1885. Equivalent in Square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1886. Acres.	Area on 31st March 1886. Equivalent in Square miles.	Number and date of Notification of addition or transfer	Remarks.
Nílgiris—*cont.*	Ootacamund—*cont.*	Ulnád	..	..	839	..	839	1½	No. 143 of 28th April 1885. No. 89 of 5th March 1886.	From 1st June 1885. From 31st March 1886.
		Krúrmand	..	..	1,552	..	1,552	2½	No. 143 of 28th April 1885. No. 89 of 5th March 1886.	From 1st June 1885. From 31st March 1886.
		Pykara	..	..	844	..	844	1½	No 143 of 28th April 1885.	From 1st June 1885.
		Sandy Nála ..	..	..	818	..	818	1	No. 89 of 5th March 1886	From 31st March 1886.
		Kengodu	..	..	415	..	415	½		
		Yemmaikal.. ..	..	..	465	..	465	½		
		Karpakan	..	..	391	..	391	½		
		Vellingiri ..	..	..	643	..	643	1		
		Carritt shola ..	..	..	265	..	265	½		
		Nílgiri Peak ..	..	..	5,962	..	5,962	9		
		Makurti Peak ..	..	..	1,323	..	1,323	2		
		Pichalbettu ..	..	..	1,668	..	1,668	2½		
		Kadcoopa ..	..	..	1,622	..	1,622	2½		
		Terrace sholas ..	..	..	76	..	76	..		
		Bellevue sholas ..	..	..	90	..	90	..		
		Ochterlony shola.	..	..	973	..	973	1½		
		Naduvatam sholas.	..	..	97	..	97	..		
	Mudumalai.	Singara	..	..	1,970	..	1,970	3	No. 88 of 5th March 1886.	From 31st March 1886.
		Kalhatti	..	..	5,005	..	5,005	8		
		Bockepuram ..	..	..	2,008	..	2,008	3		
		Moyar	..	..	13,238	..	13,238	21		
		Bonne	..	..	10,317	..	10,317	16	No. 141 of 28th April 1885.	From 1st June 1885.
		Honnathalai ..	..	..	320	..	320	½	No. 88 of 5th March 1886.	From 31st March 1886.
		Bettumand.. ..	..	..	119	..	119	½	No. 89 of 5th March 1886.	From 31st March 1886.
		Newman	..	..	70	..	70	..		
		Blackbridge ..	390	½	..	..	390	½	No. 232 of 1st December 1884.	
	Coonoor ..	Sim's Park ..	36	..	48	..	84	..	No. 232 of 1st December 1884. No. 144 of 28th April 1885.	From 1st June 1885.
		Spring field ..	34	..	..	..	34	..	No. 232 of 1st December 1884	
		Bleak house ..	52	..	..	..	52	..		
		Bandy shola ..	111	..	..	..	111	..		
		Coonoor Peak ..	..	..	259	..	259	½	No. 144 of 28th April 1885.	From 1st June 1885.
		Lamb's Rock shola.	259	½	449	..	708	1	No. 232 of 1st December 1884. No. 276 of 15th September 1885.	From 1st November 1885.
		Brooklands ..	..	..	14	..	14	..	No. 144 of 28th April 1885.	From 1st June 1885.
		Tiger hill ..	..	..	314	..	314	½		
		Town shola ..	11	..	..	..	11	..	No. 232 of 1st December 1884.	
		River Reserve ..	53	..	..	..	53	..		
		Ghát do. ..	..	..	247	..	247	½	No 144 of 28th April 1885.	From 1st June 1885.
	Kótagiri..	Hillgrove	..	..	147	..	147	½	No. 276 of 15th September 1885	From 1st November 1885.
		Barliyár	..	..	178	..	178	½		
		Benhope	..	..	40	..	40	..		
		Kullar	..	..	847	..	847	1½	No. 276 of 15th September 1885	From 1st November 1885.
		Aduthore	..	..	790	..	790	1		
		Longwood	..	..	288	..	288	½	No. 119 of 22nd April 1885.	From 1st June 1885.
		Nott shola	..	..	8	..	8	..		
		Kosalhada	..	..	155	..	155	½		
		Kunnavara ..	..	..	100	..	100	..		
		Karbetta	..	..	12	..	12	..		
		Total, Nílgiris ..	2,138	3½	58,084	..	60,222	94		
		Grand Total ..	4,596	7½	61,782	826	65,552	102		

Annual Form No. 59-C.

Forest Department, Madras, Northern Division.

Area of reserved lands, 1886-87.

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles		
Nellore ..	Kávali	Kávali	..	..	2,933	..	2,933	5	Collector's notice, dated 9th Jan 1886.	
Cuddapah ..	Kódúr	Reddipalle plantation ..	1,800	3	..	..	1,800	3	Collector's notice, dated 6th Mar. 1884.	Proposed as reserved forest. Includes present Reddipalle plantation, 924 acres.
	Cuddapah	Kamalápuram plantation .	500	1	..	..	500	1		Proposed as reserved forest. Includes present Kamalápuram plantation, 263 acres.
	Kódúr	Settigunta	8,960	14	..	..	8,960	14		Proposed as reserved forest. Includes Balapalle, east reserve, 4,484 acres.
	Do.	Kódúr	9,600	15	..	..	9,600	15		Proposed as reserved forest. Includes Kódúr Hill reserve, 4,687 acres
	Kódúr and Rájampet ..	Salivendra	19,200	30	..	..	19,200	30		Proposed as reserved forest. Includes area of 7,680 acres called Salivendra sanctioned for reservation, but not reserved.
	Do. ..	Chitvél	10,240	16	..	..	10,240	16		
	Rájampet	Vattulur hill	3,200	5	..	..	3,200	5		Proposed as reserved forest.
	Kódúr, Ráyachóti and Váyalpád	Sheshachellam	115,200	180	..	..	115,200	180		Proposed as reserved forest. This area includes the present reserves known as Balapalle, west, 6,307 acres; Vayitekona, 3,595 acres; Yerraguntlakota, 3,487 acres; Rollakonda, 1,565 acres, and Gadela, 9,682 acres
	Rájampet and Ráyachóti.	Rollamadugu	49,920	78	..	..	49,920	78		Proposed as reserved forest. Includes area called Mudampad, 8,960 acres, sanctioned for reservation, but not reserved.
	Do. ..	Gadikota	16,000	25	..	..	16,000	25		Proposed as reserved forest. Includes the area called Gadikota, 4,480 acres, sanctioned for reservation, but not reserved.
	Cuddapah, Ráyachóti and Sidhout.	Pálkonda	81,920	128	..	..	81,920	128		Proposed as reserved, forest. Includes the area called Wongimulla, 21,120 acres, sanctioned for reservation, but not reserved.

Area of reserved lands, 1886-87—*continued.*

District	Range	Name of forest	Area on 1st April 1885		Added during the year	Excluded or transferred to other heads	Area on 31st March 1886		Number and date of notification of addition or transfer	Remarks.
			Acres	Equivalent in square miles	Acres	Acres	Acres	Equivalent in square miles		
uddapah—*cont*	Cuddapah, Ráyachóti and Pulivendla	Idupulapaya	28,160	44	..	..	28,160	44	Collector's notice, dated 6th March 1884	Proposed as reserved forest Includes the area called Gulavacheruvu, 14,720 acres, sanctioned for reservation, but not actually reserved
	Badvél	Kavalakuntla	11,520	18	..	..	11,520	18	Collector's notice dated 6th December 1884.	Proposed as reserved forest
	Do	Ganugapenta	17,280	27	..	..	17,280	27		
	Do	Gopavaram .. .	13,440	21	..	.	13,440	21		
	Radvél and Sidhout ..	Ramapuram	7,680	12	..	..	7,680	12		
	Sidhout	Malliankonda	14,080	22	.	..	14,080	22		
	Do	Konarazupalle	9,600	15	..	..	9,600	15		
	Do	Vontimitta . ..	5,760	9		..	5,760	9		
	Sidhout and Rájampet ..	Kanakalakonda . ..	6,400	10	.	..	6,400	10		
	Do. ..	Pólur	7,680	12	..	..	7,680	12		
	Sidhout and Cuddapah ..	Kanamalapalle .. .	9,690	15	..	.	9,690	15		
	Sidhout, Cuddapah and Badvél	Lankamala	112,640	176	..	..	112,640	176		
	Badvél	Kottakota	38,400	60	..	..	38,400	60		
	Badvél and Proddutur ..	Dasarípalle	66,560	104	..	..	66,560	104		
	Do ..	Kanchalamaram	8,960	14	..	..	8,960	14		
	Ráyachóti	Sibbayala	3,840	6	..	..	3,840	6		
	Do	Isundupalle	4,480	7	..	..	4,480	7		
	Do	Madhavaram	5,120	8	..	.	5,120	8		
	Do	Vandadi hill	3,200	5	..	.	3,200	5		
	Ráyachóti and Váyalpád	Urukonda	8,960	14	..	..	8,960	14		Proposed as reserved forest Includes present Nadimcherla reserve, 2,000 acres
	Madanapalle, Ráyachóti and Váyalpád	Rekkalakonda	6,400	10	..	..	6,400	10		Proposed as reserved forest Includes present Rekkalakonda reserve, 1,200 acres
	Váyalpád	Yellutla	7,680	12	..	..	7,680	12		Proposed as reserved forest and contains present Yellutla reserve, 3,500 acres
	Do	Gujjibuchukona	320	½	..	.	320	½		Proposed as reserved forest and now the Gorantapalle reserve.
	Do	Yerrumaralajedu	3,680	5½	..	..	3,680	5½		
	Do	Ankalammakonda ..	2,800	4	..	..	2,800	4		Proposed as reserved forest and now the Ankulammakonda reserve
	Do	Nurukupalakonda ..	3,700	5½	..	..	3,700	5½		Proposed as reserved forest and now the Nurukupalakonda reserve
	Madanapalle	Tavalam	5,120	8	..	..	5,120	8		Proposed as reserved forest
	Do.	Mahdanikonda	1,920	3	..	..	1,920	3		

Area of reserved lands, 1886-87—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Cuddapah—*cont.*	Madanapalle	Pentzapad	1,920	3	..	..	1,920	3	Collector's notice, dated 6th Dec. 1884.	Proposed as reserved forest.
	Do.	Analakonda	4,480	7	..	..	4,480	7		
	Do.	Aludineadugu	1,920	3	..	..	1,920	3		
	Do.	Horsleykonda	9,630	15	..	..	9,630	15		Proposed as reserved forest and now the Horsleykonda reserve.
	Do.	Madugamala	2,560	4	..	..	2,560	4		Proposed as reserved forest and includes the Kosemaripalle reserve, 1,400 acres.
	Do.	Malliakonda	2,200	3½	..	..	2,200	3½		Proposed as reserved forest and now the Malliahkonda reserve.
	Do.	Nallakonda, Kotammakonda and Errakasikonda.	3,840	6	..	..	3,840	6		Proposed as reserved forest and includes the Sompalle reserve, 800 acres
	Kadiri	Ishwaramala	15,360	24	..	..	15,360	24		Proposed as reserved forest.
	Do.	Kokanti	2,000	3	..	..	2,000	3		Proposed as reserved forest and now the Kokanti reserve.
	Do.	Kadiri	10,240	16	..	..	10,240	16		
	Do.	Vellichellamala	2,560	4	..	..	2,560	4		
	Do.	Therumaladavarakonda ..	9,600	15	..	..	9,600	15		
	Do.	Nigadi	19,000	30	..	..	19,000	30		Proposed as reserved forest and now the Nigadi reserve.
	Kadiri and Pulivendla ..	Gorivikanama	28,800	45	..	..	28,800	45	Pulivendla .. 31 Kadiri .. 14	Proposed as reserved forest and includes Gorivikanama reserve, 18,000 acres.
	Do. ..	Dorigulla	30,720	48	..	..	30,720	48	Pulivendla .. 24 Kadiri .. 24	Proposed as reserved forest.
	Kadiri	Kukaravukonda	5,120	8	..	..	5,120	8	Collector's notice, dated 6th Dec. 1884.	
	Do.	Tumala	25,600	40	..	..	25,600	40		
	Do.	Malakavemulu	1,920	3	..	..	1,920	3		Proposed as reserved forest and includes part of reserved area now known as Malakavemulu, 5,500 acres.
	Do.	Tummalamala	6,400	10	..	..	6,400	10		
	Do.	Kondakomerla	3,200	5	..	..	3,200	5		Proposed as reserved forest and includes part of reserved area now known as Kondakomerla, 2,700 acres.
	Do.	Somarazumala, east ..	1,280	2	..	..	1,280	2		Proposed as reserved forest and includes part of reserved area known as Kondakomerla.
	Kódúr	Settigunta	960	1½	..	..	960	1½	Collector's notice, dated 7th Mar. 1885.	Areas approximate only.
	Do.	Yerraguntlakota	6,400	10	..	..	6,400	10		

Area of reserved lands, 1886-87—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1886.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Cuddapah—*cont.*	Rájampet	Ananthasamudram ..	10,240	16	..	..	10,240	16	Collector's notice, dated 7th Mar. 1885.	Areas approximate only.
	Do.	Sanipaya ghât	3,200	5	..	..	3,200	5		
	Sidhout	Turupukondala	7,040	11	..	..	7,040	11		
	Do.	Ippakanama	1,600	2½	..	..	1,600	2½		
	Badvél	Kalsapad	6,400	10	..	..	6,400	10		
	Do.	Sancherla	5,760	9	..	..	5,760	9		
	Do.	Tsallagirigola	1,280	2	..	..	1,280	2		
	Do.	Badvél	1,920	3	..	..	1,920	3		
	Cuddapah and Pulivendla.	Ganganapalle	57,600	90	..	..	57,600	90		
	Do. ..	Chelakampalle	9,600	15	..	..	9,600	15		
	Ráyachóti	Bramanayerragudi ..	7,680	12	..	..	7,680	12		
	Do.	Haskapuram	23,040	36	..	..	23,040	36		
		Total ..	1,062,680	1,660	..	..	1,062,680	1,660		
Kurnool ..	Sirvel and Nandyál ..	Sirvel	128,000	200	..	..	128,000	200	Collector's notification of 6th Dec. 1884.	Areas approximate only.
	Nándyal and Nandikótkur.	Nandyál.	192,000	300	..	..	192,000	300		
	Nandikótkur	Nandikótkur	256,000	400	..	..	256,000	400		
	Cumbum	Uyalawada..	448,000	700	..	..	448,000	700		
	Cumbum and Márkápur.	Cumbum								
	Márkápur	Markapur								
	Cumbum	Northern Veligondas ..	19,200	30	..	..	19,200	30		
	Do.	Southern do. ..	19,200	30	..	..	19,200	30		
	Do.	Western do. ..	10,800	17	..	..	10,800	17		
		Total ..	1,073,200	1,677	..	..	1,073,200	1,677		
Bellary ..	Kúdligi and Hospet ..	Bandri	7,000	11	..	..	7,000	11	Notification of 15th Oct. 1884.	
	Hospet	Gound	3,000	4¾	..	..	3,000	4¾		
	Do.	Hospet	5,000	8	..	..	5,000	8		
	Do.	Jog	4,000	6¼	..	..	4,000	6¼		
	Do.	Oblagudi	1,000	1½	..	..	1,000	1½		
	Bellary	Bellary	8,000	12½	..	..	8,000	12½		
	Do.	Mincheri	4,000	6¼	..	..	4,000	6¼		
	Hospet	Tornagal	2,100	3¼	..	..	2,100	3¼		
	Kúdligi	Sherbi	3,000	4½	..	..	3,000	4½		

Area of reserved lands, 1886-87—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885		Added during the year.	Excluded or transferred to other heads.*	Area on 31st March 1886.		Number and date of notification of addition or transfer	Remarks
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Bellary—*cont.*	Kúdligi	Gollalinganhalli	1,000	1½	..	..	1,000	1½	Notification of 15th Oct 1884	Areas approximate only.
	Do	Tumurgudi..	2,500	4	..	..	2,500	4		
	Do.	Somalapur	1,000	1½	..	..	1,000	1½		
	Do.	Sonkadakal	7,000	11	..	..	7,000	11		
	Do.	Shivpur	9,000	14	..	..	9,000	14		
	Adóni	Adóni, west	5,000	8	..	..	5,000	8		
	Do.	Do. east..								
	Do.	Ganekola	1,118	1¾	..	..	1,118	1¾		
	Do.	Badenahalli	792	1¼	..	..	792	1¼		
	Do	Kotalam	681	1	..	..	681	1		
	Do.	Halekota	486	¾	..	..	486	¾		
	Do.	Sulakeri	1,342	2¼	..	..	1,342	2¼		
	Do.	Kupgul	4,650	7¼	..	..	4,650	7¼		
	Do.	Tungabhadra	4,633	7¼	..	..	4,633	7¼		
	Do.	Halevy	1,145	1¾	..	..	1,145	1¾		
	Do.	Kosgi	2,970	4¾	..	..	2,970	4¾		
	Do.	Nandavaram	971	1½	..	..	971	1½		
	Do.	Ráyachôti	1,863	2¾	..	..	1,863	2¾		
	Do	Kurimetla	3,341	5¼	..	..	3,341	5¼		
	Do.	Bunivasi	1,964	3¼	..	..	1,964	3¼		
	Do.	Kotakallu	2,569	4	..	..	2,569	4		
	Do	Kudbur	2,952	4¾	..	..	2,952	4¾		
	Hadagalli and Harpanahalli.	Harada	18,000	28¼	..	..	18,000	28¼		Entered in the Collector's return, but not found in the District Gazette.
	Do. ..	Sogy	4,200	6½	..	..	4,200	6½		
		Total ..	116,277	183	..	..	116,277	183		
Anantapur	Penukonda	Kottakota	3,840	6	..	..	3,840	6	Collector's notification of 7th Feb. 1885.	Areas approximate only.
	Do	Narasampalli	3,840	6	..	* 1,280	2,560	4		
	Do.	Somarazmullai, west ..	2,130	3	..	* 1,920	210	..		
	Muchukota	Muchukota..	7,040	11	..	..	7,040	11		
		Total ..	16,850	26	..	3,200	13,650	21		
Nílgiris ..	Ootacamund	Aramby	430		..	430	..	..	Collector's notification of 17th Nov 1884	Nearly all transferred to reserved forests form 59-A.
	Do.	Cairn hill	405		..	405	..	..		

* Transferred to form 59-A.

Area of reserved lands, 1886-87—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885. Acres.	Area on 1st April 1885. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1886. Acres	Area on 31st March 1886. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Nilgiris—*cont.*	Ootacamund	Nanjanad	3,822	11	..	2,495	1,327	2	Collector's notification of 17th November 1884.	Nearly all transferred to reserved forests form 59-A.
	Do.	Chemenguli	1,745		..	844	901	1		
	Do.	Muthanad	420		..	420	..	..		
	Do.	Marliamund	17		..	17	..	..		
	Naduvatam	Naduvatam	4,966	8	..	..	4,966	8		
	Mudumalai	Benne	10,317	16	..	10,317	..	..		
	Coonoor	Ghât reserve	246		..	246	..	..		
	Do.	Sim's Park, block No. 1 ..	48		..	48	..	..		
	Do.	Do. „ 2 ..	36		..	36	..	..		
	Do.	Springfield block	35		..	35	..	..		
	Do.	Bleakhouse	52		..	52	..	..		
	Do.	Bandy shola	111	3	..	111	..	..		
	Do.	Coonoor peak	259		..	259	..	..		
	Do.	Brookland's shola.. ..	14		..	14	..	..		
	Do.	Lamb's rock shola ..	259		..	259	..	..		
	Do.	Tiger hill	314		..	314	..	..		
	Do.	Blackbridge	390		..	390	..	..		
	Ootacamund	Snowdon	1,053		..	1,053	..	..		
	Do.	Dodabetta, block No. 1 ..	310		..	..	310	1		
	Do.	Do. „ 2 ..	444		..	329	115	..		
	Do.	Kótagiri trace shola, No. 1.	20		..	20	..	..		
	Do.	Kótagiri trace shola, No. 2.	32		..	32	..	..		
	Do.	Craigmore	299	4	..	299	..	..		
	Do.	Elk hill	77		..	77	..	..		
	Do.	Lovedale, east	127		..	127	..	..		
	Do.	Do. west	74		..	74	..	..		
	Do.	Munjinikorai	17		..	17	..	..		
	Do.	Bathri shola	34		..	34	..	..		
	Do.	Therma tope	64		..	64	..	..		
	Do.	Marliamund shola.. ..	75		..	75	..	..		
	Kótagiri	Longwood	288		..	288	..	..		
	Do.	Nott shola	8		..	8	..	..		
	Do.	Kesalbada shola	156	1	..	156	..	..		
	Do.	Kunnavara	100		..	100	..	..		
	Do.	Kerbetta	12		..	12	..	..		
	Coonoor	Kullar	933		..	933	..	..		
	Do.	Aduthore	780		..	780	..	..		

Area of reserved lands, 1886-87—*continued.*

District.	Range.	Name of forest.	Area on 1st April 1885. Acres.	Area on 1st April 1885. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1886. Acres.	Area on 31st March 1886. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Nílgiris—*cont.*	Coonoor	Barliyár	216	4	..	216	..	..		Nearly all transferred to reserved forest form 59-A.
	Do.	Lamb's rock, No. 2 ..	457		..	457	..	...		
	Do.	Hillgrove	155		..	155	..	..		
	Do.	Ben hope	46		..	46	..	..		
		Total ..	29,663	47	..	22,044	7,619	12		
	Abstract	Nellore	..	..	2,933	..	2,933	5		
		Cuddapah	1,062,680	1,660	..	..	1,062,680	1,660		
		Kurnool	1,073,200	1,677	..	..	1,073,200	1,677		
		Bellary	116,277	183	..	..	116,277	182		
		Anantapur	16,850	26	..	3,200	13,650	21		
		Nílgiris	29,663	47	..	22,044	7,619	12		
		Total ..	2,298,670	3,593	2,933	25,244	2,276,359	3,557		

Annual Form No 59-D.

Forest Department, Madras, Northern Division.

Area of leased forests, 1885-86.

District.	Range.	Name of forest.	Area on 1st April 1885. Acres.	Area on 1st April 1885. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1886. Acres.	Area on 31st March 1886. Equivalent in square miles.	Remarks.
Bellary	Sandúr	Sandúr	40,000	62½	..	..	40,000	62½	Rectification of area.
Nílgiris	Mudumalai	Mudumalai	128,000	200	..	40,715	47,285	74	
		Total ..	168,000	262½	..	40,715	87,285	136½	

Annual Form No. 60.

Forest Department, Madras, Northern Circle.

Area of Plantations, 1885-86.

District.	Range.	Name of Plantation.	On 1st April 1885.		Added during 1885-86		On 31st March 1886.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost	
			ACS.	RS.	ACS	RS.	ACS.	RS.	
Godavari	Narsápur	Rustambadu	24	4,153	..	..	24	4,153	Formed in 1866-67.
		Sitarampuram	26				26		
	Amalápuram ..	Bendamurlunka (Old)	27	2,014	..	..	27	2,014	Do. in 1875-76.
		Do. (New)	20	1,011	..	133	20	1,144	Do. in 1882-83.
		Total ..	97	7,178	..	133	97	7,311	
Kistna	Bandar	Karrimid	20	232	..	130	20	362	
		Mugudham	15½	179	..	60	15½	239	
		Arisepallt	25	287	..	69	25	356	
		Masulipata-msepoy lines	..	..	46	1,229	46	1,229	
	Gudivâda	Kódur	38	118	..	56	38	174	
		Konkolu	17	965	..	184	17	1,149	
		Allinagaram	125	365	..	306	125	671	
		Korlapadu	20	144	..	63	20	207	
		Mandaralli	20	145	..	64	20	209	
		Iyawar Rudravaram	20				20		
		Banninampadu	26	195	..	55	26	250	
		Vemarrapadu	16	186	..	64	16	250	
		Venudhuru	64	198	..	92	64	290	
	Bezvâda	Ibrampatam	24	126	..	69	24	195	
	Krósúr	Gannavaram	39	115	..	54	39	169	
	Palnád	Thurmerikodu	21	281	..	55	21	336	
	Bápatla	Bápatla	21	403	..	82	21	485	
		Karlapalem	236	3,669	..	140	236	3,809	
		Vedhullapalle	20	288	..	83	20	371	
		Chirala	17	1,209	..	82	17	1,291	
		Wardrevu	23	3,425	..	74	23	3,499	
		Ammilapeta	26	1,676	..	83	26	1,759	
		Nayanipalli	17	938	..	83	17	1,021	
		Pandhillapalli	49	281	..	82	49	363	
		Total ..	899½	15,425	46	3,259	945½	18,684	
Nellore	Gúdúr	Dugarázpatnam	425	32,559	30	2,631	455	35,190	Commenced in 1873.
		Kothapatnam	355	26,308	30	1,833	385	28,141	
		Tamminapatam	475	39,957	10	1,804	485	41,761	Do.
		Kasba	4	18	— 4	— 18	..	..	Given up.
		Chandrasikuppam	..	..	10	218	10	218	

Area of plantations, 1885-86—*continued.*

District.	Range.	Name of Plantation.	On 1st April 1885. Area.	On 1st April 1885. Cost.	Added during 1885-86. Area	Added during 1885-86. Cost.	On 31st March 1886. Total area.	On 31st March 1886. Total cost.	Remarks.
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Nellore—*cont.*	Nellore	Allipuram	39	9,230	..	48	39	9,278	Commenced in 1873.
		Utukúr	180	15,165	..	801	180	15,966	Do. in 1875.
		Varani	292	33,885	..	767	292	34,652	Do. in 1874.
		Iskápalle	19½	943	— 19½	— 943	..	..	Cleared and abandoned.
	Atmakúr	Mamudúr	9	1,434	..	..	9	1,434	
	Kávali	Tummalapenta	54	18,620	..	48	54	18,668	Commenced in 1873.
	Kandukúr	Ramayapatnam	40	19,458	..	48	40	19,506	
	Ongole	Kothapatnam	35	14,618	..	48	35	14,666	
		Kanuparti	20½	16,450	..	48	20½	16,498	Commenced in 1873.
	Gúdúr	Kottapatam cocoanut plantation ..	20	1,252	— 20	— 1,252	..	..	Do. in 1863; abandoned.
		Total ..	1,968	2,29,897	+ 80 — 43½	8,294 — 2,213	2,004½	2,35,978	
Cuddapah	Kódúr	Kódúr	37	6,846	..	92	37	6,938	Commenced in 1865
		Uparapalle	108	8,183	..	72	108	8,255	Do. in 1868-69.
		Reddipalle	925	13,088	..	72	925	13,160	Do. in 1869-70.
	Rájampet	Pullampet	426	7,813	..	79	426	7,892	Do. in 1871
	Cuddapah	Kamalápuram	332	10,018	..	72	332	10,090	Do. in 1869.
	Kódúr	Arimanabunda	4	354	..	166	4	520	Do. in 1883-84.
		Total ..	1,832	46,302	..	553	1,832	46,855	
Anantapur	Gooty-Tadpatri ..	Khojjapalle	331	48	— 331	— 48	..	..	Excluded as not *really* a plantation strictly speaking. It is now a reserved forest.
		Total ..	331	48	— 331	— 48	..	..	
Nilgiris	Ootacamund ..	Mudumalai	101	27,402	..	97	21 80	27,499	
		Berne							
		Northernhay	23	10,200	..	..	23	10,200	Old "Sigúr" plantation.
		Governor's shola	277	10,135	..	135	277	10,270	Includes the old plantations of Hoopatti, Andy, Sheffield, Cully, Choughat cully, Baikie and Madana.
		Chemenguli	33	3,861	..	..	33	3,861	Commenced in 1879.
		Muthanad	95	6,686	..	8	95	6,694	Do. in 1880.
		Brook lands	10	328	..	..	10	328	Do. in 1862.
		Aramby	165	9,145	25 8*	1,749	198	10,894	Commenced in 1863, includes Koolie plantation. * To rectify area.
		Marliamund	11	830	..	..	11	830	Commenced in 1860.
		Snowdon	7	214	..	..	7	214	Do. in 1860.
		Cairn hill	130	7,027	+ 22 — 7*	2,098	145	9,125	Do. in 1877. * To rectify area.

Area of plan'ations, 1885-86—*continued.*

District.	Range.	Name of Plantation.	On 1st April 1885.		Added during 1885-86.		On 31st March 1886		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Nílgiris—*cont.*	Ootacamund—*cont.*	Devashola	14	1,637	..	..	14	1,637	Commenced in 1880.
		Blackbridge	56	1,921	..	..	56	1,921	Do. in 1874. Includes rock plantation.
		Bleakhouse .. .. / Bandyshola	235	4,488	..	7	235	4,495	Commenced in 1857.
		Coonoor peak	200	4,490	7 / —5 *	482	202	4,972	Do. in 1872. * To rectify area.
		Tippakutchi	35	783	..	..	35	783	Commenced in 1882.
		Rallia	105	2,571	..	..	105	2,571	
		Total ..	1,497	91,718	62 / —12	4,576	1,547	96,294	
					CULTURAL OPERATIONS.				
Ganjam	Goomsur	Mojagodo	3½	576	..	33	3½	609	Formed in 1869-70.
		Total ..	3½	576	..	33	3½	609	
Vizagapatam ..	Pálkonda	Voni	25	451	..	..	25	451	
		Lakshmipuram	26	619	..	..	26	619	
		Total ..	51	1,070	..	..	51	1,070	
Nellore	Kávali and Kandukúr.	....	..	50	..	274	..	324	Miscellaneous sowings in forest and among prickly-pear (40,700 pits dug and sown).
	Gúdúr	Sríharikót	..	412	..	267	..	679	Sowing and planting of blanks in the natural jungle.
		Total ..	..	462	..	541	..	1,003	
Cuddapah	Cuddapah	Kamalápuram	10	..	..	..	10	..	Babul Drisanam sown broad-cast; most of the seeds failed to germinate.
		Do.	..	..	4	16	4	16	Sown with babul by goats and sheep in April 1885 and March 1886.
		Do.	5	22	3	30	8	52	Sown with Drisanam and Vepa. Some o the Drisanam were planted out in baskets.
		Do.	..	..	27	38	27	38	Sown with palmyras.
		Do.	..	..	5	3	5	3	Sowings of Drisanam and Vepa in prickly-pear.
		Appaiapalle	..	..	2	..	2	..	Do. do.
		Do.	..	..	7	10	7	10	

Area of plantations, 1885-86—*continued.*

District.	Range.	Name of Plantation.	On 1st April 1885.		Added during 1885-86.		On 31st March 1886.		Remarks
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
		CULTURAL OPERATIONS—*cont.*							
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Cuddapah—*cont.*	Rájampet	Pullampet	40	40	23	39	63	79	Sown with Tangedu seeds in furrows.
		Do.	..	..	15		15		Do. do. after thorough ploughing.
	Kódúr	Reddipalle	..	..	5	..	5	..	Sown with Yepi but failed.
		Balapalli west reserve evergreen forest, compartment 5-*b*.	12	9	..	..	12	9	Seed dibbled in.
		Balapalli working circle compartment 6-*b*.	..	..	15	50	15	50	Planted with red sanders seedlings in baskets from Kódúr plantation.
		Kódúr tope	6	5	..	..	6	5	Sown with Tangedu seeds but failed.
		Gandikota reserve	50	5	270	13	320	18	Seeds dibbled in.
		Pennér river bank near Proddutur.	18	5	89	68	107	73	Sown with palmyra and date.
	Váyalpád	Ankalammakonda	..	..	15	20	15	20	
	Kádiri	Nigadi	..	..	3	..	3	..	
	Kódúr	Balapalle	..	..	2	250	2	250	Nurseries.
	Madanapalle ..	Horaleykonda	..	..	1	..	1	..	
		Total ..	141	86	486	537	627	623	
Kurnool	Nandyál	Orwakul	46	30	..	..	46	30	Commenced in 1883-84.
	Nandikótkur ..	Mandlam	10	10	..	..	10	10	
		Total ..	56	40	..	..	56	40	
Bellary	Hospet	Gandlavattugiri	4	..	..	..	4	..	
		Nayanahalli	10	..	..	..	10	..	
		Total ..	14	..	..	..	14	..	
		Total plantations ..	6,624½	3,90,568	—2,06½	14,554	6,426	4,05,122	
		Total cultural operations ..	265½	2,234	486	1,111	751½	3,345	
		Grand Total ..	6,890	3,92,802	279½	15,665	7,177½	4,08,467	

Annual Form No. 61.

Forest Department, Madras, Northern Circle.

Annual statement of topes.

District.	Taluk.	Number of topes.	Area.	Cost.		Remarks.
				During year.	To end of year.	
			ACS.	RS.	RS.	
Ganjam ..	Berhampore	3	13	..	..	Coast near Chatrapur. Casuarina, &c.
	Goomsur	1	83	..	162	Includes some forest.
	Chicacole	3	5	..	..	Coast. Cashew, margosa, &c.
Vizagapatam ..	Pálkonda	2	56	..	8	Mixed trees.
Godávari ..	Rámachandrapuram ..	8	30	..	..	
Kistna	Bandar	2	9	235	251	In Masulipatam.
	Gudiváda	1	5	48	170	
	Bezváda	2	9	93	323	
	Nandigáma	1	11	48	185	
	Vinukonda	1	6	44	166	
	Narsaraopet	1	7	44	131	
	Sattanapallo	1	6	..	..	
	Bápatla	1	2	46	1,204	
	Répalle	1	1	..	..	
Nellore	Gúdúr	11	124	50	3,206	
	Rápúr	15	183	..	8,533	
	Nellore	33	380	..	6,599	
	Venkatagiri	3	12	..	4,420	
	Atmakúr	9	130	..	2,793	
	Kávali	17	742	..	4,190	
	Udayagiri	4	29	..	2,665	
	Kandukur	6	13	..	1,853	
	Kanigiri	5	19	..	1,408	
	Ongole	4	107	..	1,212	
	Podili	4	13	..	1,165	
Cuddapah ..	Pullampet	7	69	142	5,249	
	Sidhout	4	40	100	7,940	
	Badvél	6	63	129	2,465	
	Proddutur	2	32	..	516	
	Jammalamadugu ..	9	309	118	12,219	
	Pulivendla	10	638	153	4,545	
	Cuddapah	8	155	254	5,719	
	Kadiri	8	73	47	2,125	
	Madanapalle	8	68	225	6,048	
	Ráyachóti	5	95	81	1,615	
	Vayalpád	3	30	62	3,425	
	All	..	5,764	..	..	Scattered trees in villages
Kurnool ..	Rámallakót	7	66	9	839	
	Pattikonda	5	29	..	1,879	
	Kóilkuntla	4	9	36	3,683	
	Nandikótkur	1	2	48	213	
	Nandyál	3	33	99	977	
	Sirvel	1	6	48	147	
	Cumbum	3	23	48	175	
	Márkápur	3	14	..	257	
Bellary	Bellary	6	86	..	..	
	Kúdligi	4	9	..	..	
	Hadgalli	2	11	..	41	
	Harpanahalli	2	3	..	..	
	Alúr	11	101	..	..	
	Adóni	6	30	98	186	
Anantapur ..	Anantapur	6	154	29	269	
	Gooty	9	204	..	48	
	Tadpatri	21	1,037	..	48	
	Dharmavaram	29	1,555	302	2,078	
	Hindupur	17	127	..	90	
	Penukonda	11	303	..	..	
	Madakasíra	5	26	..	36	
Nílgiris	Coonoor	1	2	403	469	Experimental garden
	Total ..	366	13,161	3,039	1,03,945	

Annual Form No. 62.

Forest Department, Madras, Northern Circle.

Area of Forest Tracts protected from fire during the year 1885-86, to accompany report for 1885-86.

District and Range.		Forest Tract.	Up to 15th June 1885. Area actually protected.	Up to 15th June 1885. Total cost.	During dry season of 1885-86. Area attempted to be protected.	During dry season of 1885-86. Fires.	During dry season of 1885-86. Area actually protected.	During dry season of 1885-86. Amount expended.	Total cost up to 31st March 1886.	Year when protection commenced.	Remarks.
			ACS.	RS.	ACS.	ACS.	ACS.	RS.	RS.		
Ganjam	Berhampore	Mohiri hills	15,200	131	19,200	1	19,199	174	305	1885	Specially protected.
	Kukuluba	Chondargiri and Ambazara	46,045	353	46,045	..	46,045	..	353	,,	
	Mojagodo	Baibali and Darpangia	21,775	125	21,775	..	21,775	..	125	,,	
		Total ..	83,020	609	87,020	1	87,019	174	783		
Kistna..	Bezváda	Kondapalle	8,320	470	8,320	..	8,320	270	740	1884	Specially protected.
	Vinukonda	Bollapalle	6,000	378	6,400	..	6,400	236	614	1885	
	Palnád	Mutukur	6,400	40	6,400	..	6,400	55	95	,,	
		Madhinapadu	1,920	80	1,920	..	1,920	30	110	,,	
		Total ..	22,640	968	23,040	..	23,040	591	1,559		
Nellore .	Rápúr	Rápúr Veligondas	10,000	60	14,000	1,000	13,000	..	60	1885	Ordinary staff.
	Udayagiri	Udayagiri	8,000	60	9,360	1,360	8,000	10	70	,,	
	Kanigiri	Kanigiri	28,000	..	34,000	..	34,000	..	..	,,	
		Total ..	46,000	120	57,360	2,360	55,000	10	130		
Cuddapah.	Kódúr	Ballipalle, West	6,307	1,195	6,307	..	6,307	156	1,351	1867	Specially protected.
		Do. East	6,404	1,232	6,404	..	6,404	157	1,389	1871	
		Kódúr hill	4,687	814	4,687	..	4,687	99	913	1874	
		Vagetikona	3,595	424	3,595	..	3,595	42	466	,,	
		Yerraguntlaketa	3,487	734	3,487	..	3,487	122	856	1873	
		Rallakonda	1,565	272	1,565	..	1,565	49	321	1879	
		Gadela	9,682	487	9,682	..	9,682	62	549	1874	
		Thanakonda..	978	318	1,048	..	1,048	33	351	,,	
	Rájampet	Rellamadugu	5,424	142	5,424	..	5,424	12	154	1878	
		Srirangarazupallium	4,800	399	4,800	160	4,640	163	562	1883	
	Kadiri	Nigadi	14,000	467	14,000	..	14,000	110	577	1881	
		Malakavemula	6,000	249	8,500	20	8,480	70	319	,,	
		Kondakomerla	3,700	170	3,700	..	3,700	18	188	,,	
		Thummala	2,495	218	2,495	..	2,495	9	227	,,	
		Kokanti	2,000	144	2,000	..	2,000	18	162	,,	
		Gorivikanama	18,000	195	18,000	..	18,000	..	195	,,	Ordinary staff.

Area of Forest Tracts protected from fire during the year 1885-86, to accompany report for 1885-86—*continued.*

District and Range		Forest Tract.	Up to 15th June 1885. Area actually protected.	Up to 15th June 1885. Total cost.	During dry season of 1885-86. Area attempted to be protected.	During dry season of 1885-86. Fires.	During dry season of 1885-86. Area actually protected.	During dry season of 1885-86. Amount expended.	Total cost up to 31st March 1886.	Year when protection commenced.	Remarks.
			ACS.	RS.	ACS.	ACS.	ACS.	RS.	RS		
Cuddapah—*cont.*	Madanapalle	Rekkalakonda	1,200	153	1,200	..	1,200	2	155		Specially protected.
		Mallayakonda	2,200	181	2,200	..	2,200	2	183		
		Kosuvaripalle	1,400	118	1,400	..	1,400	2	120		
		Soampalle	800	98	800	..	800	..	98		Ordinary staff.
		Horsleykonda	9,620	352	9,630	..	9,630	32	384	1881	
	Váyalpád	Yellutla	3,500	186	3,500	..	3,500	9	195		
		Nadimcherla	2,000	179	2,000	..	2,000	9	188		
		Nurukuppalakonda	4,600	253	4,600	..	4,600	25	278		
		Ankalammakonda	2,000	242	2,000	..	2,000	25	267		
		Gorantlapalle	4,000	172	4,000	..	4,000	9	181		
	Cuddapah	Mamillapalle	3,000	378	3,000	564	2,436	80	458		Specially protected.
	Cuddapah and Ráyachóti.	Guvalacheruvu	7,600	289	7,600	..	7,600	62	351	1883	
	Ráyachóti	Gadikota	11,988	415	12,000	..	12,000	85	500		
	Sidhout	Arapayakanama	8,800	284	9,000	7,000	2,000	95	379		
	Bádvel	Kottakota	7,035	150	7,200	8	7,192	103	253	1885	
	Proddutur	Mudireddipalle	8,985	303	9,000	200	8,800	196	499	1883	
		Rámeswéram	91	28	91	..	91	..	28		
		Thalamapuram	153	33	153	..	153	..	33		
		Vellala	258	33	258	..	258	..	33		Ordinary staff.
		Alladupalle	197	32	197	..	197	..	32		
		Payadala	99	18	99	..	99	..	18		
		Nidijuvi	696	74	696	..	696	4	78		Specially protected.
		Kothapalle	120	18	120	..	120	..	18		Ordinary staff.
		Kalamalla	430	60	430	..	430	2	62		Specially protected.
		Modanathipalle	86	18	86	..	86	..	18		
		Ananthapuram	138	18	138	..	138	..	18		Ordinary staff.
		Kallur	160	17	160	..	160	..	17	1881	
	Jammalamadugu ..	Kondasankesula	858	62	858	..	858	5	67		
		Gandikota	372	66	372	..	372	5	71		
		Kosinepalle	300	51	300	..	300	..	51		
		Yamavaram	300	61	200	..	200	5	66		
		Dhodiem	689	38	689	..	689	..	38		
		Murupandi	786	38	786	..	786	..	38		Specially protected.
		Malamedikambaladinne	787	57	787	..	787	5	62		
		Kódúr	579	55	579	..	579	5	60		
		Aravetipalle	200	22	200	..	200	..	22		
		Denepalle	350	18	350	..	350	..	18		
		Peddadudiala	300	24	300	..	300	..	24		
		Total ..	179,801	12,054	182,673	7,952	179,721	1,887	13,941		

Area of Forest Tracts protected from fire during the year 1885-86, to accompany report for 1885-86—*continued*.

District and Range		Forest Tract.	Up to 15th June 1885.		During dry season of 1885-86.				Total cost up to 31st March 1886.	Year when protection commenced.	Remarks.
			Area actually protected.	Total cost.	Area attempted to be protected.	Fires	Area actually protected.	Amount expended.			
			ACS.	RS.	ACS.	ACS.	ACS.	RS.	RS.		
Kurnool..	Atmakúr	Atmakúr-Velgode	17,280	1,510	16,000	1,500	14,500	970	2,480	1884	Specially protected
		Total ..	17,280	1,510	16,000	1,500	14,500	970	2,480		
Bellary.	Sandúr	Sandúr	2,750	927	2,750	..	2,750	36	963	1883	Specially protected.
		Hospet	1,050	698	1,050	..	1,050	14	712		
		Venkatagiri	1,150	270	1,150	..	1,150	15	285		
		Gound	5,050	331	5,050	..	5,050	66	397		
		Gurga	2,430	488	2,430	..	2,430	32	520		
		Kanavahalli	4,160	375	4,160	..	4,160	54	429		
		Dharmapúr	2,150	274	2,150	..	2,150	28	302		
		Basapúr	2,030	128	2,230	..	2,230	29	157	1885	
		Konapúr	1,960	141	1,960	..	1,960	26	167		
		Honsahatti	3,760	120	3,760	720	3,040	49	169		
		Kakbal	3,240	152	3,240	1,200	2,040	42	194		
		Joga	2,440	198	2,440	800	1,640	32	230		
		Madarhalli	2,380	156	2,380	2,380	..	31	187		
	Western	Shivpur	9,000	53	9,000	..	9,000	64	117		
	Bellary	Malpangudi	700	139	700	..	700	61	200	1884	
		Total ..	44,250	4,450	44,450	5,100	39,350	579	5,029		
Anantapur.	Penukonda	Kottakota	5,120	332	5,120	..	5,120	212	544	1884	Specially protected.
	Muchukota	Muchukota	16,000	1,186	16,000	..	16,000	550	1,736		
	Hindupúr	Amagondapolliam	15,360	198	15,360	..	15,360	143	341	1885	Fire patrols only.
		Dokulkonda	2,880	15	2,880	..	2,880	14	29		
		Somarazmalai	1,920	15	1,920	..	1,920	14	29		
		Total ..	41,280	1,746	41,280	..	41,280	933	2,679		
Nílgiris.	Mudumalai	Mudumalai plantation	101	671	101	..	101	285	956	1883	Ordinary staff and fire-patrols.
		Benne plantation									
		Northernhay	23	435	23	..	23	124	559		
	Ootacamund	Aramby	430	136	430	..	430	41	177		
		Marliamund plantation	17	89	17	..	17	36	125		
		Governor's shola	670	344	1,341	..	1,341	115	459		
		Cairn hill	403	112	403	..	403	42	154		
		Pykara	844	53	844	..	844	22	75		
		Múthanád	457	114	457	..	457	57	171		
		Snowdon	987	51	987	..	987	13	64		
		Dodabetta	826	46	826	..	826	16	62		
		Elk hill	77	118	184	..	184	43	161		

Area of Forest Tracts protected from fire during the year 1885-86, to accompany report for 1885-86—*continued.*

District and Range		Forest Tract.	Up to 15th June 1885		During Dry season of 1885-86.				Total cost up to 31st March 1886.	Year when protection commenced.	Remarks.
			Area actually protected.	Total cost.	Area attempted to be protected	Fires.	Area actually protected.	Amount expended.			
			ACS.	RS.	ACS	ACS	ACS.	RS.	RS.		
Nílgiris	Coonoor	Kullár	883	44	933	130	803	17	61	1883	Ordinary staff and fire-patrols.
		Aduthore	780	34	780	20	760	12	46		
		Barhyár	126	38	126	..	126	23	61		
		Hulikal	2,280	118	2,280	..	2,280	58	176		
		Rallia	105	102	105	..	105	53	155		
		Lamb's rock	716	71	716	..	716	80	151		
		Commandu	..	..	993	..	993	61	61		
		Tiger hill	317	20	317	..	317	33	53		
		Ghát reserve	261	39	261	..	261	28	67		
		Coonoor peak	256	58	256	..	256	35	93		
		Hillgrove	155	28	155	..	155	3	31		
		Benhope	46	37	46	..	46	11	48		
		Sim's park and spring field	70	25	70	..	70	12	37		
		Bandyshola	111	19	111	..	111	18	37		
		Devashola, north and south	..	..	214	..	214	47	47		
		Bleak house	56	33	56	..	56	6	39		
		River reserve	53	26	53	..	53	21	47		
		Black bridge	391	33	391	..	391	50	83		
		Town shola	11	12	11	..	11	4	16		
		Brook lands	14	17	14	..	14	14	31		
	Kótagiri	Longwood	292	217	292	30	262	35	252	1885	
	Naduvatam	Cost of patrolling	..	36	..	..	..	29	65		
	Kunoah	Do.	..	48	..	..	..	37	85		
		Total ..	11,758	3,224	13,793	180	13,613	1,481	4,705		
		ABSTRACT.									
	Total ..	Specially protected ..	363,369	20,799	369,561	14,553	355,008	5,106	25,905		
		Ordinary staff ..	82,660	3,882	96,055	2,540	93,515	1,519	5,401		
		Grand Total ..	446,029	24,681	465,616	17,093	448,523	6,625	31,306		

Annual Form No. 63.

Forest Department, Northern Circle, Madras.

Prosecutions for breaches of forest rules during 1885-86.

District	Cases pending from 1884-85.	New cases of the year.					Total cases.	Disposed of during the year.						Cases pending at the close of the year.
		Injury to forest by fire.	Unauthorised felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Total.		
								Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
Ganjam ..	7	..	122	..	..	122	129	79	247	36	105	115	352	14
Vizagapatam..	1	..	64	..	..	64	65	60	334	4	23	64	357	1
Godávari ..	1	..	49	..	.	49	50	40	105	6	34	46	139	4
Kistna ..	1	12	94	3	12	121	122	72	192	48	178	120	370	2
Nellore ..	47	2	28	..	5	35	82	24	97	35	130	59	227	23
Cuddapah ..	12	7	192	4	6	209	221	183	411	29	99	212	510	9
Kurnool ..	4	..	94	..	..	94	98	76	144	18	39	94	183	4
Bellary ..	4	..	29	..	23	52	56	26	55	24	93	50	148	6
Anantapur ..	1	3	72	6	2	83	84	57	212	24	85	81	297	3
Nilgiris ..	..	..	19	..	.	19	19	18	52	1	12	19	64	..
Total ..	78	24	763	13	48	848	926	635	1,849	225	798	860	2,647	66

Cases compounded under section 55 of the Madras Forest Act.

														Amount for which these cases were compounded.
														RS. A. P.
Ganjam ..	..	..	2	..	..	2	2	2	2	..	..	2	2	8 0 0
Vizagapatam..	..	..	5	..	..	5	5	5	35	..	..	5	35	2 0 0
Godávari ..	..	..	..	..	..	..	..	..	..	..	..	..	..	None.
Kistna ..	..	..	56	..	..	56	56	56	64	..	..	56	64	103 0 0
Nellore ..	..	..	14	..	..	14	14	14	..	..	..	14	..	98 0 0
Cuddapah ..	..	..	41	1	9	51	51	51	140	..	..	51	140	152 0 0
Kurnool ..	..	..	..	..	..	..	..	..	..	..	..	..	..	None.
Bellary ..	..	..	..	..	1	1	1	1	30	..	..	1	30	15 0 0
Anantapur ..	..	..	14	2	1	17	17	17	43	..	..	17	43	104 0 0
Nilgiris ..	..	..	..	..	..	..	..	..	..	..	..	..	..	None.
Total ..	..	..	132	3	11	146	146	146	314	..	..	146	314	482 0 0

Annual Form No. 64.

Forest Department, Madras, Northern Circle.

Annual summary of revenue of the different districts, 1885-86.

Budget heads, receipts.	Direction.	Ganjam.	Vizagapatam.	Godávari.	Kistna.	Nellore.	Cuddapah.	Kurnool.	Bellary.	Anantapur.	Nílgiris.	Total.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government agency—												
(a) Timber	..	21,590	1	..	..	2,214	34,344	..	..	131	7,169	65,449
(b) Firewood and charcoal	..	..	..	5,436	..	54,353	8	..	1,264	4	18,252	79,317
(c) Bamboos	..	..	..	..	..	325	524	..	..	..	..	849
(d) Sandalwood	..	..	..	..	..	..	..	..	..	..	3,081	3,081
(e) Grass and other minor produce ..	..	117	..	..	..	4,883	409	5	26	170	926	6,536
II. Timber and other produce removed from the forests by consumers or purchasers—												
(a) Timber	..	460	433	32,473	4,736	2,571	17,288	41,717	425	905	1,213	1,02,221
(b) Firewood and charcoal	..	11,586	2,414	5,633	8,159	3,198	61,104	16,112	3,335	1,611	5,311	1,18,463
(c) Bamboos	..	3,156	979	7,929	1,025	4	5,458	10,317	452	1,222	1,839	32,381
(d) Grazing and fodder grass ..	..	..	..	1,161	30,999	55	296	1,514	2,201	14	209	36,449
(e) Other minor produce	..	442	60	355	10,352	2,131	42,089	1,965	11,126	10,582	236	79,341
III. Confiscated drift and waif wood	..	247	29	7,335	423	78	569	540	17	125	6	9,369
IV. Revenue from forests not managed by Government—										—		
V Miscellaneous—												
(a) Fines and forfeitures	..	..	3	5	..	..	50	..	..	..	..	58
(b) Refunds	242	1,117	17	76	231	1,200	13	323	7	5	705	3,936
(c) Other sources	4	..	2	160	7,185	386	521	124	25	327	98	8,832
Total Receipts ..	246	38,715	3,938	60,566	63,110	71,398	1,62,673	72,617	18,878	15,096	39,045	5,46,282

(Signed) G. HOMFRAY,
Ag Examiner of Forest Accounts.

Annual Form No. 64.

Forest Department, Madras, Northern Circle.

Summary of expenditure of the different districts, 1885-86.

Budget heads.	Direction.	Ganjam.	Vizagapatam.	Godávari.	Kistna.	Nellore.	Cuddapah.	Kurnool.	Bellary.	Anantapur.	Nilgiris.	Total.
A—*Conservancy and Works.*	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government agency—												
(a) Timber	..	5,854	..	2	..	260	13,604	..	..	1	2,609	22,330
(b) Firewood and charcoal	..	116	..	2,162	..	28,098	1	..	921	6	11,859	43,163
(c) Bamboos	..	..	..	..	..	..	244	..	..	..	..	244
(d) Sandalwood	..	..	..	..	..	..	..	..	..	..	1,545	1,545
(e) Grass and other minor produce..	..	249	..	..	27	1,947	255	..	34	205	888	3,605
II. Timber and other produce removed from the forests by consumers or purchasers	..	1,478	509	2,862	2,289	412	7,171	4,989	49	245	1,182	21,186
III. Confiscated, drift and waif wood.. ..	..	217	..	1,319	23	..	33	22	..	..	..	1,614
IV. Revenue from forests not managed by Government	..	220	..	..	..	..	..	21	..	..	..	241
V. Rent of leased forests and payments to shareholders in forests managed by Government	..	..	..	..	..	..	..	..	8,333	..	3,500	11,833
VI. Live stock, stores, tools and plant—												
(a) Purchase of cattle	..	..	..	..	..	..	..	..	..	..	..	..
(b) Feed and keep of cattle	..	97	..	..	..	..	2	..	..	..	1,419	1,518
(c) Stores, tools and plant	72	51	119	7	1	14,323	147	5	2	151	380	15,258
VII. Communications and buildings—												
(a) Roads and bridges	..	261	..	..	..	..	1,010	..	..	79	1,141	2,491
(b) Buildings	..	868	..	97	190	106	2,062	2,778	460	2,010	394	8,965
(c) Other works	..	..	..	..	..	..	20	..	..	..	65	85
VIII. Demarcation, improvement and extension of forests—												
(a) Demarcation	..	1,789	36	26	2,047	87	2,475	1,504	656	506	3,934	13,060
(b) Compensation for land and rights	..	192	..	..	143	..	114	125	..	381	550	1,505
(c) Surveys and working plans ..	..	..	..	..	..	..	..	32	..	..	7	39
(d) Plantations..	63	94	..	133	4,615	9,355	3,486	288	182	409	6,191	24,816
(e) Protection from fire	163	483	..	..	911	130	3,108	595	1,758	932	2,340	10,420
(f) Other works	14	58	..	..	1	261	502	..	439	..	967	2,242
IX. Miscellaneous—												
(a) Refunds	..	..	..	..	231	377	30	122	..	20	..	780
(b) Law charges	..	3	..	..	..	..	1	..	..	..	..	4
(c) Other charges	490	493	39	227	181	22	279	33	2	60	160	1,986
Total A—Conservancy and Works ..	802	12,523	703	6,835	10,659	55,378	34,544	10,514	12,836	5,005	39,131	1,88,930

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Ag. Examiner of Forest Accounts.

ANNUAL FORM No. 64.

Forest Department, Madras, Northern Circle.

Annual summary of expenditure of the different districts, 1885-86.

Budget heads	Direction	Ganjam.	Vizagapatam	Godávari	Kistna	Nellore	Cuddapah	Kurnool	Bellary	Anantapur	Nilgiris.	Total.
B —"*Establishments*"	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS.	RS	RS
Brought forward, Total A "Conservancy and Works"	802	12,523	703	6,835	10,659	55,378	34,544	10,514	12,836	5,005	39,131	1,88,930
I Salaries—												
(a) Conservators'	13,300	..	..	..	..	..	..	..	..	..	..	13,300
(b) Superior officers	11,230	5,539	1,989	3,500	4,400	8,850	12,118	12,618	5,244	3,939	10,684	80,111
(c) Subordinate forest and depôt establishments	2,618	3,695	2,490	3,407	5,120	6,543	10,041	5,374	3,962	2,637	5,447	51,334
(d) Office establishments . .	9,038	1,113	436	964	1,436	1,553	2,674	1,498	727	715	1,456	21,610
(e) Deputation and special allowances	654	..	..	..	98	..	..	..	..	..	..	752
II Travelling allowances—												
(a) Conservators	3,812	..	..	..	..	..	..	..	..	..	..	3,812
(b) Superior officers	1,696	1,514	702	1,454	1,200	2,370	2,707	2,993	1,525	1,698	2,307	20,166
(c) Subordinate forest and depôt establishments	840	1,241	698	1,112	649	1,167	1,972	1,041	666	529	922	10,837
(d) Office establishments	961	180	80	193	387	291	343	406	69	312	65	3,287
III Contingencies—												
(a) Stationery	23	17	..	1	49	36	..	..	19	..	..	145
(b) Carriage of tents and records ..	333	16	5	51	296	115	34	92	35	110	..	1,087
(c) Rents, rates and taxes	622	..	..	185	..	300	239	..	160	25	360	1,891
(d) Pay of police guards	..	..	..	..	..	..	..	..	..	..	..	..
(e) Official postage	478	69	47	116	192	284	424	239	115	132	96	2,192
(f) Sundries	1,008	88	25	125	133	311	255	138	76	60	144	2,363
Total B, "Establishments" ..	46,613	13,472	6,472	11,108	13,960	21,820	30,807	24,399	12,598	10,157	21,481	2,12,887
Grand Total of Expenditure ..	47,415	25,995	7,175	17,943	24,619	77,198	65,351	34,913	25,434	15,162	60,612	4,01,817

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Ag. Examiner of Forest Accounts.

ANNUAL FORM No. 65.

Forest Department, Madras, Northern Circle.

Outstandings and liabilities on account of contractors and disbursers for 1885-86.

District.	Department debtor.			Department creditor.			Balance due.		Remarks
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To department (outstandings).	By department (liabilities).	
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	
Conservator's office, Northern Circle ..	..	2,244 10 9	2,244 10 9	..	2,511 13 8	2,511 13 8	267 2 11	..	
Two-fifths of Examiner's office	..	1,541 1 8	1,541 1 8	..	1,572 0 11	1,572 0 11	30 15 3	..	
Forest Settlement office, Kurnool	..	..	..	..	..	..	..	..	
Do. Nílgiris	..	..	..	..	..	..	..	..	
Ganjam	..	15,975 12 11	15,975 12 11	2,122 12 6	14,906 1 9	17,028 14 3	1,053 1 4	..	
Vizagapatam	..	873 4 11	873 4 11	389 13 0	873 14 3	1,263 11 3	390 6 4	..	
Godávari	..	9,390 7 6	9,390 7 6	516 1 10	9,603 13 9	10,119 15 7	729 8 1	..	
Kistna	..	16,546 10 5	16,546 10 5	852 0 1	16,614 9 3	17,466 9 4	919 14 11	..	
Nellore	..	59,894 4 8	59,894 4 8	2,594 13 0	60,059 8 0	62,654 5 0	2,777 6 11	17 6 7	
Cuddapah	..	34,023 4 1	34,023 4 1	3,424 15 7	31,500 10 6	34,925 10 1	902 6 0	..	
Kurnool	..	13,887 11 7	13,887 11 7	463 1 0	14,300 15 3	14,764 0 3	876 4 8	..	
Bellary	121 4 3	5,221 10 5	5,342 14 8	121 4 3	5,459 10 3	5,580 14 6	237 15 10	..	
Anantapur	..	5,492 15 8	5,492 15 8	..	5,614 4 3	5,614 4 3	121 4 7	..	
Nílgiris	..	15,088 11 2	15,088 11 2	325 6 6	15,860 9 7	16,186 0 1	1,097 4 11	..	
Total ..	121 4 3	1,80,180 9 9	1,80,301 14 0	10,810 3 9	1,78,877 15 5	1,89,688 3 2	9,403 11 9	17 6 7	

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ANNUAL FORM No. 66.

Forest Department, Madras, Northern Circle.

Revenue received and outstandings on account of revenue during 1885-86.

District.	Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realized during year.	Balance due to the department at end of year.	Remarks.
		RS A. P.	RS. A. P.	RS. A. P.	RS. A P.	RS. A. P.	
Ganjam	Timber and other produce	279 0 2	40,350 6 7	40,629 6 9	38,714 8 2	1,914 14 7	
Vizagapatam	Do.	..	3,938 2 4	3,938 2 4	3,938 2 4	..	
Godávari	Do.	..	60,565 13 8	60,565 13 8	60,565 13 8	..	
Kistna	Do.	..	63,110 1 0	63,110 1 0	63,110 1 0	..	
Nellore	Do.	200 0 0	72,099 12 11	72,299 12 11	71,398 0 11	901 12 0	
Cuddapah	Do.	..	1,62,688 15 7	1,62,688 15 7	1,62,672 15 7	16 0 0	
Kurnool	Do.	..	72,616 15 11	72,616 15 11	72,616 15 11	..	
Bellary	Do.	..	15,880 1 9	18,880 1 9	18,877 13 9	2 4 0	
Anantapur	Do.	..	15,096 2 1	15,096 2 1	15,096 2 1	..	
Nílgiris	Do.	834 1 0	41,216 5 11	42,050 6 11	39,045 1 5	3,005 5 6	
Direction	Do.	..	246 7 3	246 7 3	246 7 3	..	
	Total ..	1,313 1 2	5,50,809 5 0	5,52,122 6 2	5,46,282 2 1	5,840 4 1	

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Ag. Examiner of Forest Accounts.

Annual Form No. 67.

Forest Department, Madras, Northern Circle.

Financial results of the year 1885-86.

Districts.	Timber and other produce removed from the forests by Government Agency.		Other Revenue.		Formation, protection and improvement of forests	Total.	
	Receipts	Charges	Receipts.	Charges	Charges.	Receipts	Charges
	RS	RS.	RS	RS	RS.	RS	RS
Ganjam	21,707	14,203	17,033	5,541	10,992	38,740	30,736
Vizagapatam	1	..	3,961	4,524	4,289	3,962	8,813
Godávari	5,436	6,691	55,155	9,171	6,822	60,591	22,684
Kistna	..	27	63,134	11,712	17,621	63,134	29,360
Nellore	61,774	58,649	9,649	7,420	17,423	71,423	83,492
Cuddapah	35,286	22,359	1,27,412	22,863	26,423	1,62,698	71,645
Kurnool	5	..	72,637	21,727	19,480	72,642	41,207
Bellary	1,290	3,373	17,612	10,859	14,390	18,902	28,622
Anantapur	305	2,333	14,815	6,551	9,466	15,120	18,350
Nílgiris	29,427	35,130	9,643	4,644	27,134	39,070	66,908
Total ..	1,55,231	1,42,765	3,91,051	1,05,012	1,54,040	5,46,282	4,01,817

FORM No. 68.

Forest Department, Madras, Northern Circle.

Trees felled by Government Agency during the year 1885-86.

(Selection fellings.)

District.	Range, Forest or Working Circle.	Description of Trees.	Number of Trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Number.	Total.	Balance at end of the year.	Remarks.
Ganjam	Kukuluba range	Sál	94	296	390	Converted into logs	287	287	103	
		Sajo	..	116	116	Do. do.	116	116	..	
		Dhau	..	59	59	Do. do.	51	51	8	
		Piasal	..	2	2	Do. do.	2	2	..	
		Satinwood	..	6	6	Do. do.	6	6	..	
		Miscellaneous	..	12	12	Do. do.	12	12	..	
	Mojagodo range	Sajo	..	3	3	Do. do.	3	3	..	
		Dhau	..	8	8	Do. do.	8	8	..	
		Ebony	..	4	4	Do. do.	4	4	..	
		Blackwood	..	1	1	Do. do.	1	1	..	
		Piasal	..	2	2	Do. do.	2	2	..	
		Cottonwood	..	255	255	....	255	255	..	
		Miscellaneous	..	30	30	....	30	30	..	
	Suradá	Sajo	..	62	62	....	62	62	..	
		Total, Ganjam ..	94	856	950	....	839	839	111	
Godávari	Wuddagudiem range ..	Nallamaddi	..	112	112	....	..	..	112	
		Sombi	..	21	21	....	..	..	21	
		Chiriman	..	24	24	....	..	..	24	
		Ippa	..	25	25	....	..	..	25	
		Chimpangi	..	15	15	....	..	..	15	
		Bandaru	..	1	1	....	..	..	1	
		Konda Tangedu	..	2	2	....	..	..	2	
		Total, Godávari ..	..	200	200	....	..	..	200	
Nellore	Plantation range	Casuarina	..	215	215	Converted into piles and fuel.	215	215	..	
	Varany plantation ..									
	Iskapalle	Do.	..	5	5	Do. do. ..	5	5	..	
	Kávali range									
	Ramapatam plantation ..	Do.	..	1,541	1,541	Do. do. ..	1,541	1,541	..	
	Udayagiri range ..	Miscellaneous	36	..	36	Do. do. ..	..	..	36	
		Total, Nellore ..	36	1,761	1,797	....	1,761	1,761	36	

Trees felled by Government Agency during the year 1885-86—*continued.*

District.	Range, Forest or Working Circle.	Description of Trees.	Number of Trees: On hand at commencement of the year.	Felled during the year	Total.	Disposed of during the year: How disposed of.	Number.	Total.	Balance at end of the year.	Remarks
Cuddapah ..	Cuddapah range .. .. Kamalápuram plantation.	Babul	..	1	1	Converted into 2 logs and 3 tons firewood.	1	1	..	
	Ráyachóti range .. .. Gadikota forest	Red sanders	..	2	2	Converted into 2 posts and used departmentally	2	2	..	
		Total, Cuddapah ..	..	3	3	....	3	3	..	
Anantapur ..	Khojjepalle reserve ..	Palmyra	..	22	22	Converted into 50 demarcation posts.	20	22	..	Used departmental'y
						Sold by auction	2			
	Do. do. ..	Babul	..	145	145	Do. do	145	145	..	
	Anantapur do. ..	Palmyra	..	14	14	Converted into 35 demarcation posts.	14	14	..	Used departmentally.
	Yellanoor tope	Babul	..	84	84	Logged	84	84	..	
	Muchukota forest ..	Neem	..	20	20	Sold by auction	20	20	..	
		Yepi	..	380	380	Do. do	230	380	..	
						Used departmentally for fire patrols' huts .. .	150			
		Total, Anantapur ..	..	665	665	....	665	665	..	
Nilgiris	Benne reserved forests ..	Teak	..	102	102	Converted into logs	102	102	..	
		Blackwood	..	23	23	.. .	23	23	..	
	Mudumalai leased forests .	Teak	..	183	183	....	183	183	..	
	Tippacadu block	Blackwood	..	60	60	....	60	60	..	
		Vengai	..	118	118	....	118	118	..	
		Mutti	..	35	35	. ..	35	35	..	
	Governor's shola	Eucalyptus	..	2,549	2,549	Converted into fuel	2,549	2,549	..	
	Cairn hill	Do.	..	3,275	3,275	....	3,275	3,275	..	
		Miscellaneous	..	1,085	1,085	....	1,085	1,085	..	
	Aramby	Eucalyptus	..	2,234	2,234	....	2,234	2,234	..	
	Dodabetta reserved forests..	Miscellaneous	..	28	28	....	28	28	..	
	Lovedale W. reserved forests.	Do. saplings ..	..	12	12	Converted into poles	12	12	..	
	Coonoor peak	Eucalyptus	..	1,357	1,357	Do. do	38	..	..	
						Do. into fuel	1,319	1,357	..	
	Ghât reserve	Miscellaneous	..	91	91	Do. do.	91	91	..	
	Bandy shola	Acacia..	..	79	79	Do. do	79	79	..	
	Kullar reserved forests ..	Miscellaneous	..	375	375	Do. into poles	375	375	..	
		Total, Nilgiris ..	..	11,606	11,606	....	11,606	11,606	..	
		Grand Total ..	130	15,091	15,221	....	14,874	14,874	347	

Trees felled by Government Agency during the year 1885-86—*continued.*

District.	Range, Forest or Working Circle.	Description of Trees.	Number of Trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Number.	Total.	Balance at end of the year.	Remarks.
	Abstract	Teak	..	285	285	....	285	285	..	
		Sál	94	296	390	....	287	287	103	
		Blackwood	..	84	84	....	84	84	..	
		Satinwood	..	6	6	....	6	6	..	
		Ebony	..	4	4	....	4	4	..	
		Cottonwood	..	255	255	....	255	255	..	
		Red sanders	..	2	2	....	2	2	..	
		Ironwood	..	2	2	....	..	..	2	
		Margosa	..	20	20	....	20	20	..	
		Babul	..	230	230	....	230	230	..	
		Yegi	..	122	122	....	122	122	..	
		Yepi	..	380	380	....	380	380	..	
		Chiriman	..	91	91	....	59	59	32	
		Maddi	..	328	328	....	216	216	112	
		Palmyra	..	36	36	....	36	36	..	
		Eucalyptus	..	9,415	9,415	....	9,415	9,415	..	
		Acacia	..	79	79	....	79	79	..	
		Casuarina	..	1,761	1,761	....	1,761	1,761	..	
		Miscellaneous	36	1,695	1,731	....	1,633	1,633	98	
		Total ..	130	15,091	15,221	....	14,874	14,874	347	

ANNUAL FORM No. 69.

Forest Department, Madras, Northern Circle.

STATEMENT of Timber and other Produce cut and collected by Government Agency during the year 1885-86.

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of	Number.	Cubic feet.	Number.	Cubic feet.	
Ganjam.	Mojagodo ..	Sál logs ..	5,523	66,963	..	..	5,523	66.963	Sold . ..	3,297	36,138	2,226	30,825	
		Blackwood logs.	..	..	6	75	6	75	Taken to depôt Sold . ..	5 1	63 12	..	..	
		Ebony	..	..	6	107	6	107	Taken to depôt	6	107	..	..	
		Piasál	..	..	16	273	16	273	Do. ..	16	273	..	..	
		Sajo	..	..	11	177	11	177	Do. ..	11	177	..	..	
		Dhau	..	..	9	187	9	187	Do. ..	9	187	..	..	
		Cotton tree ..	..	..	260	2,926	260	2,926	Do. ..	260	2,926	..	..	
		Miscellaneous ..	..	..	31	382	31	382	Do. ..	31	382	..	..	
	Kukuluba ..	Sál	..	..	2,648	35,145	2,648	35,145	Sold	446	7,687	159	3,941	
									Depôt ..	2,043	23,517			
		Piasál	..	..	6	91	6	91	Do. ..	5	80	1	11	
		Sajo	..	..	138	2,050	138	2,050	Sold	26	356	36	523	
									Taken to depôt	76	1,171			
		Dhau	..	..	56	956	56	956	Sold . ..	7	102	43	724	
									Taken to depôt	6	130			
		Satinwood ..	..	..	7	94	7	94	Do. ..	7	94	..	..	
		Miscellaneous ..	..	..	45	557	45	557	Sold	2	38	11	179	
									Taken to depôt	32	340			
	Suradá ..	Sál logs ..	..	..	63	477	63	477	Do. ..	63	477	..	..	8 Poles.
		Piasál ,, ..	..	..	1	18	1	18	Do. .	1	18	..	..	
		Sajo ,, ..	..	..	74	1,348	74	1,348	Do. ..	58	994	15	338	For specimens.
									Used departmentally.	1	16			
	Berhampore.	Sál ,, ..	..	..	2	24	2	24	Taken to depôt	2	24	..	..	
		Piasál ,, ..	..	..	3	31	3	31	Do. ..	3	31	..	..	
		Total ..	5,523	66,963	3,382	44,918	8,905	111,881	..	6,414	75,340	2,491	36,541	
Godávari.	Rékapalle ..	Firewood ..	Tons. 465	32,454	Tons. 1,256	101,736	Tons. 1,721	134,190	Sold to Public Works Department.	Tons. 1,279	103,589	Tons. 442	30,601	
		Total ..	Tons. 465	32,454	Tons. 1,256	101,736	Tons. 1,721	134,190	..	Tons. 1,279	103,589	Tons. 442	30,601	
	Godávari river.	Teak	..	..	2,396	12,751	2,396	12,751	Taken to depôt Sold	1,553 843	9,907 2,844	..	..	Drift timber.
		Miscellaneous ..	..	..	272	3,154	272	3,154	Taken to depôt Sold	205 67	2,210 944	..	..	
		Total ..	..	..	2,668	15,905	2,668	15,905	..	2,668	15,905	..	..	
	Do. ..	Bamboos ..	..	..	5,564	..	5,564	..	Sold	5,564	..	..	..	
		Total ..	..	..	5,564	..	5,564	..	..	5,564	..	..	..	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1885-86—*continued.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet	Number.	Cubic feet.	
Nellore.	Sriharikóta..	Narudu poles ..	438	1,314	322	161	760	1,475	Madras depôt.	760	1,475	..	..	
		Miscellaneous poles.	..	..	3,878	1,939	3,878	1,939	Do.	3,878	1,939	..	..	
		Stakes and pegs.	..	..	23,643	..	23,643	..	Sold to Salt department.	23,643	..	..	..	
	Rápúr ..	Sleepers and posts.	108	167	..	..	108	167	Sold	108	167	..	..	
	Udayagiri ..	Miscellaneous sleepers.	339	565	..	..	339	565	..	..	..	339	565	
	Plantations (North).	Casuarina piece.	..	..	2,584	2,347	2,584	2,347	Sold	2,584	2,347	..	..	
	Plantations (South).	Do. piles.	..	..	889	1,538	889	1,538	Do.	881	1,521	..	..	
									Madras depôt.	8	17			
		Total, Timber..	885	2,046	31,316	5,985	32,201	8,031	..	31,862	7,466	339	565	
	Sriharikóta..	Junglewood ..	590,585	Tons. 282	1,628,194	Tons. 1,628	2,218,779	Ts. 2,221	Madras depôt.	2,218,779	Ts. 2,221	..	..	
						,, *311								
			Bdls. 25,279	,, 111	25,534	,, 1,922	50,813	,, 2,033	Do.	50,813	,, 2,033	..	..	
	Plantations (North).	Casuarina ..	..	,, 11	..	,, 247	..	258	Do.	..	,, 16	..	..	
									Transferred south plantations.	..	,, 6			
									Sold	..	,, 236			
	Plantations (South).	Do. ..	..	,, 62	..	,, 2,700	..	,, 2,762	Madras depôt.	..	,, 2,508	..	79	
									Sold	..	,, 175			
		Total, Fuel..	..	Tons. 466	..	Tons. 6,808	..	Ts. 7,274	..	..	Ts. 7,195	..	79	
	Sriharikót ..	Nux-vomica ..	Mds. 840	..	Mds. 810	..	Mds. 1,650	..	Madras depôt.	Mds. 1,650	..	..	..	
		Cheyroot ..	,, 353	..	,, 436	..	,, 789	..	Do.	,, 502	..	Mds. 287	..	
		Suratichekka ..	,, 6	..	,, 87	..	,, 93	..	..	..	..	,, 93	..	
		Soapnuts ..	..	..	,, 288	..	,, 288	..	Madras depôt.	,, 288	..	..	..	
		Orchella ..	,, 10	..	..	..	,, 10	..	..	..	..	,, 10	..	
		Honey	..	..	,, 2	..	,, 2	..	..	..	..	,, 2	..	
		Tangedu ..	,, 523	..	..	..	,, 523	..	Madras depôt.	,, 460	..	,, 63	..	
		Rattans ..	Bdls. 67	..	Bdls. 215	..	Bdls. 282	..	Do.	Bdls. 212	..	Bdls. 65	..	
									Used departmentally.	,, 5				
	Plantations.	Cashew-nuts ..	..	..	Mds. 85	..	Mds. 85	..	Sold	Mds. 85	..	..	..	Tons 19=cwt. 19 =lb. $\frac{19 \times 112}{25}$ = mds. 85.
		Total, Minor produce..	Mds. 1,732	..	Mds. 1,708	..	Mds. 3,440	..	..	Mds. 2,985	..	Mds. 455	..	
			Bdls. 67=	..	Bdls. 215=	..	Bdls. 282=	..	..	Bdls. 217=	..	Bdls. 65=	..	
			Mds. 34	..	Mds. 107	..	Mds. 141	..	..	Mds. 108	..	Mds. 33	..	

* Brought on stock.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1885-86—*continued.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Cuddapah.	Kodúr ..	Red sanders, roots, &c.	..	..	Tons 2,162	..	Tons. 2,162	..	Taken to sale depôt.	Tons. 2,162	..	..	..	
		Total, Timber..	..	..	Tons 2,162	..	Tons 2,162	..	..	Tons. 2,162	..	..	..	
	Kodúr ..	Bamboos ..	..	..	1,368	..	1,368	..	Sale depôt ..	472	..	..	..	
									Used departmentally.	276				
									Sold	620				
		Total, Bamboos.	..	..	1,368	..	1,368	..	..	1,368	..	..	..	
	Kodúr ..	Thatch grass ..	..	..	Ton. ½	..	Ton. ½	..	Depôt ..	Ton. ½	..	..	..	= 45 Mds. of 25 lb.
	Madanapalle	Sheakoy ..	..	..	Mds. 54	..	Mds. 54	..	Do. ..	Mds. 54	..	..	..	
		Gallnuts B ..	..	..	,, 11	..	11	..	Do. ..	,, 11	..	..	..	
		Mangoes ..	..	..	825	..	825	..	Do. ..	825	..	..	..	
		Pomegranates..	..	..	45	..	45	..	Do. ..	45	..	..	..	
		Total, Minor produce..	..	..	Mds 110	..	Mds. 110	..	..	Mds 110	..	..	..	75 fruits per maund estimate.
			..	..	870	..	,, 870	..	..	870	..	..	..	
Kurnool.	Nandikótkur	Gallnuts B ..	Mds. 500	..	..	..	Mds. 500	..	..	..	..	Mds. 500	..	B = Beleric.
	Sirvel ..	Do. B ..	,, 300	..	..	..	,, 300	..	..	..	..	,, 300	..	
	Velgode ..	Do. B ..	,, 230	..	..	..	,, 230	..	..	..	..	,, 230	..	
	Nandyál ..	Do. B ..	,, 500	..	..	..	,, 500	..	..	..	..	,, 500	..	
		Total, Minor produce.	1,530	..	..	..	Mds. 1,530	..	..	..	..	Mds. 1,530	..	
Bellary.	Sandúr ..	Teak poles ..	4	..	..	..	4	..	..	..	..	4	..	12 cubic feet
		Palmyra rafters	..	..	225	..	225	..	Sold	225	..	..	..	
		Total, Timber..	4	..	225	..	229	..	..	225	..	4	..	Estimate 225 cubic feet.
	Sandúr ..	Firewood ..	Tons 896	65,615	Tons. 1,011	70,770	Tons. 1,907	136.385	Sold	200	14,000	1,707	122.385	
		Do ..	,, 94	5,640	,, 247	17,290	,, 341	22,930	Do.	15	1,050	326	21,880	Creepers.
		Total, Fuel..	Tons. 990	71,255	Tons. 1,258	88,060	Tons. 2,248	159,315	..	215	15,050	2,033	144,265	
		Gallnuts B ..	..	..	Mds. 77	..	Mds. 77	..	Bellary depôt	Mds. 77	..	..	..	B = Beleric.
		Do C ..	..	..	,, 56	..	,, 56	..	Sold	,, 56	..	..	..	C = Chebulic.
		Tamarind ..	..	..	,, 43	..	,, 43	..	..	,, ..	..	Mds. 43	..	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1885-86—*continued.*

District.	Forest range Forest or working circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet	
Bellary—*cont.*	Sandúr—*cont.*	Sheakoy ..	Mds. 6	..	..	.	Mds. 6	..	..	..	..	Mds. 6	..	
		Kamila.. ..	lb. 5	..	..	..	lbs. 5	..	..	..	..	lbs. 5	..	
		Honey	Bottles. 2	..	Bottles. 17	..	Bottles. 19	..	Sold ..	Bottles. 9	..	Bottles. 10	..	17 bottles = 1 maund estimate.
		Wax	..	..	lb. 2	..	lb. 2	..	..	..	..	lb. 2	..	
		Total, Minor produce..	Mds. 6	..	Mds. 177	..	Mds. 183	..	..	Mds. 133	..	Mds. 50	..	
Anantapur	Penukonda ..	Miscellaneous poles.	* ..	* ..	..	3	..	3	Sold ..	..	3	..	..	
	Muchukota ..	Babul pieces ..	..	..	84	420	84	420	Do.	84	420	..	..	
		Total, Timber ..	..	..	84	423	84	423	..	84	423	..	..	
	Muchukota ..	Brushwood ..	..	..	Tons 9	..	Tons 9	..	Sold ..	Tons 9	..	..	..	
		Total, Fuel ..	..	..	Tons 9	..	Tons 9	..	..	Tons 9	..	..	..	
	Penukonda..	Honey	* ..	* ..	Mds. 35	..	Mds. 35	..	Bukkapatnam depôt.	Mds. 35	..	..	..	
		Wax	..	..	Seers 68 or Mds. 1¾	..	Seers 68 or Mds. 1¾	..	Do. ..	Seers 68 or Mds. 1¾	..	..	..	
		Tamarind ..	..	..	,, 5	..	Mds. 5	..	Do. ..	Mds. 5	..	..	..	
		Gallnuts C. ..	..	..	,, 29	..	,, 29	..	Do. ..	,, 29	..	..	..	
		Do. B. ..	..	..	,, 2	..	,, 2	..	Do. ..	,, 2	..	..	..	
		Kanuga seeds..	..	..	Md. 1	..	Md. 1	..	Do. ..	Md. 1	..	..	..	
		Yepi fibre ..	Mds. 5	..	..	..	Mds. 5	..	Do. ..	Mds. 5	..	..	..	
	Hindupur ..	Tamarind ..	,, 116	..	..	..	,, 116	..	Do. ..	,, 116	..	..	..	
		Honey	..	..	Mds. 6	..	,, 6	..	Sold	,, 6	..	..	..	
		Wax ..	..	..	Md. ¼	..	Md. ¼	..	Do.	Md. ¼	..	..	..	
		Gallnuts C. ..	..	..	Mds. 25	..	Mds. 25	..	Do.	Mds. 25	..	..	..	
		Kanuga seeds..	..	..	,, 18	..	,, 18	..	Bukkapatnam depôt.	,, 18	..	..	..	
	Gooty ..	Babul pods ..	..	..	Tons 7½ or Mds. 672	..	Tons 7½ or Mds. 672	..	Sent to Agricultural department.	Tons 4½	..	..	..	
		..	..	..	..	..	..	..	Gooty depôt.	,, 3				
		Do. bark ..	..	..	,, 60	..	,, 60	..	Sent to Agricultural department.	Mds. 60	..	..	..	
	Muchukota ..	Do. ..	..	..	,, 855	..	,, 855	..	Do ..	,, 855	..	..	..	
		Total, Minor produce ..	Mds. 121	..	Mds. 1,710	..	Mds. 1,830	..	..	Mds. 1,830	..	..	..	

* The "balance at end of year" shown in Form 69 for 1884-85 under minor produce having subsequently been reported to have been taken to depôt, it now appears in Form No. 70 as "on hand, 1st April 1885."

Statement of Timber and other Produce cut and collected by Government Agency during the year 1885-86—*continued.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Nilgiris.	Benné ..	Teak	33	551	102	3,523	135	4,074	Sold	92	2,424	43	1,650	
		Blackwood ..	35	1,334	23	864	58	2,198	..	55	1,968	3	230	
	Tippecadu block.	Teak	..	..	183	4,574	183	4,574	..	182	4,561	1	13	
		Blackwood ..	..	..	60	3,007	60	3,007	..	60	3,007	..	..	
		Vengai ..	8	500	118	3,665	126	4,165	..	118	3,665	8	500	
		Mutti	..	..	35	1,183	35	1,183		..	..	35	1,183	
	Lovedale ..	Miscellaneous saplings.	..	..	12	4	12	4	Sold	12	4	..	..	Estimated 4 cubic feet
	Coonoor peak.	Bluegum drag poles.	..	..	8	8	8	8	Coonoor depôt.	8	8	..	..	Estimated each 1 cubic foot.
	Moyar ..	Miscellaneous poles.	..	..	642	..	642	..	Masnacoil ..	642	..	..	..	Branch wood.
	Kullár ..	Miscellaneous poles.	..	..	4,085	2,042	4,085	2,042	Kullár ..	4,085	2,042	..	..	Saplings
		Total, Timber..	76	2,385	5,268	18,870	5,344	21,255	..	5,254	17,679	90	3,576	
	Governor's shola.	Eucalyptus ..	Tons. 34	..	Tons. 1,246	..	Tons. 1,280	..	Ootacamund depôt.	Tons. 185	..	Tons. 259	..
									Sold ..	„ 836	..		
	Cairn hill ..	Do. ..	..	..	„ 552	..	„ 552	..	Ootacamund depôt.	„ 96	..	„ 11	..
									Sold ..	„ 445	..		
		Shola wood ..	..	..	„ 333	..	„ 333	..	Ootacamund depôt.	„ 34	..	„ 62	..
									Sold ..	„ 237	..		
	Aramby ..	Eucalyptus ..	..	..	„ 1,014	..	„ 1,014	..	Ootacamund depôt.	„ 567	..	..	..
									Sold ..	„ 447	..		
		Shola wood ..	..	..	„ 67	..	„ 67	..	Ootacamund depôt.	„ 1	..	„ 39	..
									Sold ..	„ 27	..		
	Dodabetta.	Do. ..	..	..	„ 77	..	„ 77	..	Ootacamund depôt.	„ 6	..	..	..
									Sold ..	„ 71	..		
	Woodcock shola.	Do. ..	..	..	„ 68	..	„ 68	..	..	..	..	„ 68	..
	Pykara ..	Do. ..	..	..	„ 20	..	„ 20	..	..	..	..	„ 20	..
	Coonoor peak.	Eucalyptus ..	Tons. 490	..	„ 702	..	„ 1,192	..	Coonoor depôt.	„ 147	..	„ 417	..
									Wellington depôt.	„ 58	..		
									Sold ..	„ 570	..		
	Ghât reserve.	Shola wood ..	..	..	„ 124	..	„ 124	..	Do. ..	„ 104	..	..	..
									Coonoor depôt.	„ 20	..		

Statement of Timber and other Produce cut and collected by Government Agency during the year 1885-86—*continued.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Nilgiris—(*Continued*).	Bandy shola..	Acacia	..	..	Tons. 56	..	Tons 56	..	Coonoor depôt.	Tons. 46	..	Tons. 2	..	
	Kullár ..	Miscellaneous firewood.	..	..	,, 148	..	,, 148	..	Sold	,, 8	..	,, 148	..	
		Total, Fuel ..	Tons. 524	..	Tons 4,407	..	Tons. 4,931	..	..	Tons. 3,839	..	Tons. 1,092	..	
	Sigúr ..	Sandal roots and chips.	Mds. 125	..	Mds. 910	..	Mds. 1,035	..	Sold	Mds. 910	..	Mds. 125	..	
		Total, Sandal ..	Mds. 125	..	Mds. 910	..	Mds 1,035	..	..	Mds. 910	..	Mds. 125	..	
	Kullár ..	Gallnuts C ..	..	..	Mds. 118	..	Mds. 118	..	Depôt ..	Mds. 118	..	..	..	
	Melúr ..	Do. C ..	..	..	,, 260	..	,, 260	..	Do. ..	,, 260	..	..	..	
	Sigúr ..	Do. C ..	..	..	,, 700	..	,, 700	..	Sold	,, 700	..	..	..	
	Kotagiri ..	Do. C ..	..	..	,, 304	..	,, 304	..	Do.	,, 304	..	..	..	
	All ranges..	Sheakoy ..	..	..	,, 128½	..	,, 128½	..	Do.	,, 23	..	..	..	
									Kullár depôt..	,, 105½	..			
		Tamarind ..	..	..	,, 6	..	,, 6	..	Do. ..	,, 1	..	..	..	
									Sold	,, 5	..			
		Soapnuts ..	..	..	,, 1	..	,, 1	..	Do.	,, 1	..	..	..	
		Honey	..	..	Btls. 88	..	Btls. 88	..	Do.	Btls. 82½	..	Btls. 5½	..	1 Maund = 12 bottles estimate
		Wax	..	..	Mds. 5	..	Mds. 5	..	Do.	Mds. 5	..	..	..	
		Horns	..	..	,, 4½	..	,, 4½	..	Do.	,, 4½	..	..	..	
		Blue gum seeds.	..	..	lb. 1¼	..	lb. 1¼	..	Depôt ..	lb. 1¼		..	..	
		Total, Minor produce.	..	..	Mds. 1,534	..	Mds. 1,534	..	..	Mds. 1,533½	..	Mds. ½	..	
							ABSTRACT.							
		Teak logs and poles.	37	551	285	8,097	322	8,648	..	254	6,686	68	1,962	
		Sál logs ..	5,523	66,963	2,739	36,059	8,262	103,022	..	5,876	68,245	2,386	34,777	
		Redsanders roots.	..	..	Tons. 2,162	..	Tons. 2,162	..	..	Tons. 2,162	..	..	..	
		Sandalwood ..	Mds. 125	..	Mds. 910	..	Mds. 1,035	..	..	Mds. 910	..	Mds. 125	..	
		Sleepers and pieces.	447	732	3,473	3,885	3,920	4,617	..	3,581	4,052	339	565	
		Miscellaneous wood, logs and poles.	481	3,148	33,694	19,681	34,175	22,829	..	34,024	19,152	151	3,677	
		Fuel	Tons. 2,445	..	Tons. 13,738	..	Tons. 16,183	..	..	Tons. 12,537	..	Tons. 3,646	..	
		Bamboos ..	..	..	1,368	..	1,368	..	..	1,368	..	..	..	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1885-86—*continued.*

District.	Forest range, Forest or working circle	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number	Cubic feet.	Number.	Cubic feet	Number.	Cubic feet	How disposed of.	Number.	Cubic feet.	Number	Cubic feet	
		Nux-vomica ..	Mds. 840	..	Mds. 810	..	Mds 1,660	..	..	Mds 1,650	..	..	..	Strychnos nux-vomica.
		Cheyroot ..	,, 353	..	,, 436	..	,, 789	..	..	,, 502	..	Mds. 287	..	Oldenlandia umbellata.
		Suratichekka ..	,, 6	..	,, 87	..	,, 93	..	..	..	..	,, 93	..	Ventilago maderaspatana.
		Soap-nuts ..	..	..	,, 289	..	,, 289	..	..	,, 289	..	..	..	Sapindus emarginatus.
		Orchella ..	,, 10	..	..	..	,, 10	..	..	..	..	,, 10	..	Roccella montaignei.
		Tangedu ..	,, 523	..	..	..	,, 523	..	..	,, 460	..	,, 63	..	Cassia auriculata.
		Honey	..	..	,, 49	..	,, 49	..	..	,, 48	..	,, 1	..	
		Wax	..	..	,, 7	..	,, 7	..	..	,, 7	..	..	..	
		Gallnuts B ..	,, 1,530	..	,, 90	..	,, 1,620	..	..	,, 90	..	,, 1,530	..	Terminalia belerica.
		Do. C ..	..	..	,, 1,492	..	,, 1,492	..	..	,, 1,492	..	..	..	Terminalia chebula.
		Tamarind ..	,, 116	..	,, 54	..	,, 170	..	..	,, 127	..	,, 43	..	Tamarindus indica.
		Sheakoy ..	,, 6	..	,, 182½	..	,, 188½	..	..	,, 182½	..	,, 6	..	Acacia concinna.
		Babul { Pods ..	..	..	,, 672	..	,, 672	..	..	,, 672	..	..	..	Do. arabica.
		Babul { Bark .	..	..	,, 915	..	,, 915	..	..	,, 915	..	..	..	
		Cashew-nuts ..	..	..	,, 85	..	,, 85	..	..	,, 85	..	..	..	Anacardium occidentale.
		Horns	..	..	,, 4½	..	,, 4½	..	..	,, 4½	..	..	..	
		Kamila.. ..	,, ¼	..	..	..	,, ¼	..	..	..	..	,, ¼	..	Mallotus philippinensis.
		Yepi fibre ..	,, 5	..	..	..	,, 5	..	..	,, 5	..	..	..	Hardwickia binata.
		Kanuga seeds ..	..	..	,, 19	..	,, 19	..	..	,, 19	..	..	..	
		Rattans ..	Bdls. 67	..	Bdls 215	..	Bdls. 282	..	..	Bdls. 217	..	Bdls. 65	..	Pongamia glabra.
		Thatch grass ..	..	..	Ton ½	..	Ton ½	..	..	Ton. ½	..	..	..	Calamus Roxburghu.
		Fruits	..	..	No. 870	..	No. 870	..	..	No. 870	..	..	..	
		Blue gum seeds.	..	..	lb. 1¼	..	lb. 1¼	..	..	lb. 1¼	..	..	..	

Annual Form No. 70.

Forest Department, Northern Division.

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1885-86.

District.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1885.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1886.		Remarks.
			No. or Quantity.	Cubic feet.	Whence received.	No. or Quantity.	Cubic feet.	No. or Quantity.	Cubic feet.	How disposed of.	No. or Quantity.	Cubic feet.	No. or Quantity.	Cubic feet.	
Ganjam.	Russell-kondah.	Sál logs	519	5,854	Forests ..	2,154	24,236	2,673	30,090	Cut sleepers	755	7,915	3	7	
										Sold	1,845	18,446			
										Gopálpur depôt ..	70	1,325			
										Loss on remeasurement.	..	2,397			
		,, b g. sleepers ..	..	..	Conversion ..	351	1,219	351	1,219	Sold	351	1,219	..	..	
		,, m.g. ,, ..	14	31	Do. ..	818	1,791	832	1,822	Do.	832	1,822	..	..	
		,, n.g. ,, ..	480	640	Do. ..	592	796	1,072	1,436	Do.	1,072	1,436	..	..	
		,, slabs, &c. ..	1,143	..	Do. ..	4,741	..	5,884	..	Do.	5,832	..	52	..	Slabs.
		Piasál logs ..	..	..	Forests ..	20	341	21	353	Do.	15	286	1	4	
					Found in depôt.	1	12			Used departmentally..	5	63			
		Blackwood ..	..	..	Forests ..	5	63	5	63	Do ..	1	15	4	48	
		Ebony ,, ..	..	..	Do. ..	6	107	6	107	Do. ..	2	35	..	..	
										Sold	4	72			
		Satin ,, ..	1	16	Do. ..	7	94	8	110	Gopálpur depôt ..	6	88	..	..	
										Used departmentally..	2	22			
		Sajo ,, ..	..	..	Do. ..	87	1,361	87	1,361	Gopálpur depôt ..	9	162	4	35	
										Sold	74	1,161			
										Used departmentally..	..	3			
		Dhau ,, ..	..	..	Forests ..	15	317	16	321	Gopálpur depôt ..	8	176	..	..	
					Found in depôt.	1	4			Sold	8	135			
										Used departmentally..	..	6			
										Loss on remeasurement.	..	4			
		Cotton tree ..	..	..	Do. ..	260	2,926	260	2,933	Gopálpur depôt ..	100	761	1	26	
					Remeasurement.	..	7			Sold	159	2,146			
		Miscellaneous trees.	3	28	Forests ..	63	722	79	812	Do.	64	654	2	10	
					Remeasurement.	13	62			Used departmentally..	13	148			
		Total, timber ..	2,160	6,569	....	9,134	34,058	11,294	40,627	....	11,227	40,497	67	130	
	Suradá ..	Sál logs	60	743	Confiscated ..	55	477	115	1,221	Sold	115	1,221	..	..	
					Remeasurement.	..	1								
		,, poles	80	..	Forests ..	8	..	88	..	Do.	46	..	..	..	
										Used departmentally..	42				
		,, b g. sleepers ..	..	..	Found	2	7	2	7	Do. ..	..	..	2	7	
		Piasál logs ..	12	97	Forest ..	1	18	13	116	Sold	13	116	..	..	
					Remeasurement.	..	1								
		Blackwood logs ..	2	15	Do. ..	..	..	2	15	Do.	..	..	2	15	
		Sajo logs ..	..	..	Forests ..	26	484	58	994	Do.	32	510	26	484	
					Cut in depôt ..	32	510								
		Miscellaneous logs.	9	61	Do. ..	..	..	9	61	Do.	7	49	2	12	
		,, poles..	15	..	Do. ..	..	..	15	..	Do.	4	..	..	..	
										Used departmentally..	11				
		Total ..	178	916	....	124	1,498	302	2,414	....	270	1,896	32	518	

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1885-86—*continued.*

District.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1885.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1886.		Remarks.
			No. or Quantity	Cubic feet.	Whence received.	No. or Quantity.	Cubic feet.	No. or Quantity.	Cubic feet.	How disposed of.	No. or Quantity.	Cubic feet.	No. or Quantity.	Cubic feet.	
Ganjam—*continued.*	Berhampore.	Sál logs	35	607	Forest ..	2	24	37	631	Sold	35	607	2	24	
		Blackwood ..	2	37	Do. ..	..	..	2	37	Used departmentally..	1	23	..	..	
										Sold	1	14			
		Piasál	..	..	Do ..	3	31	3	31	Do.	3	31	..	..	
		Total ..	37	644	....	5	55	42	699	....	40	675	2	24	
	Gopálpur..	Sál logs	23	514	Remeasurement depôt.	70	1,325	93	1,839	Sold	69	1,250	..	..	
										Madras	24	589			
		Dhau logs ..	..	..	Do. ..	8	176	8	176	Do.	8	176	..	..	
		Sajo „	..	..	Do. ..	9	163	9	163	Do.	8	151	..	..	
										Sold	1	12			
		Satinwood logs ..	..	..	Do. ..	6	88	6	88	Madras	6	86	..	..	
										Remeasurement ..	..	2			
		Cotton „ „ ..	..	..	Do. ..	100	* 757	100	757	Sold	100	* 757	..	..	* Dryage 4.
		Total ..	23	514	....	193	2,509	216	3,023	....	216	3,023	..	..	
	Madras ..	Sál logs	..	..	Gopálpur ..	24	589	24	589	Sold	20	478	4	71	
										Remeasurement ..	..	40			
		Dhau logs ..	..	..	Do. ..	8	176	8	176	Do. ..	..	..	8	176	
		Sajo „	..	..	Do. ..	8	151	8	151	Do. ..	..	..	8	151	
		Satinwood logs ..	..	..	Do. ..	6	86	6	86	Do. ..	..	..	6	86	
		Total ..	..	..	....	46	1,002	46	1,002	....	20	518	26	484	
Golávari.	Rajahmundry.	Teak	..	..	Wudagudem ..	1,125	8,077	1,125	8,077	Sold	1,125	8,077	..	..	Drift wood.
		Do.	..	..	Rajahmundry ..	428	1,830	428	1,830	Do.	428	1,830	..	..	
		Miscellaneous ..	..	..	Do. ..	205	2,210	205	2,210	Do.	205	2,210	..	..	
		Total, drift wood	..	..	....	1,758	12,117	1,758	12,117	....	1,758	12,117	..	..	
Nellore.	Madras ..	Narudu poles ..	562	100	Sríharikót ..	760	1,475	1,322	1,575	Sold	491	734	830	841	
										Short delivery ..	1				
		Miscellaneous „ ..	..	..	Do. ..	3,878	1,939	3,878	1,939	Used departmentally..	3,878	1,939	..	..	
		Casuarina „ ..	..	..	Casuarina plantations.	8	17	8	17	Do ..	6	15	1	2	
										Sold	1				
	Gúdúr ..	Sleepers and posts	315	525	....	..	..	315	525	Do.	315	525	..	..	
		Total, timber ..	877	625	....	4,646	3,431	5,523	4,056	....	4,692	3,213	831	843	

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1885-86—*continued.*

District.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1885.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1886.		Remarks.
			No. or Quantity.	Cubic Feet.	Whence received.	No. or Quantity.	Cubic Feet.	No. or Quantity.	Cubic Feet.	How disposed of.	No. or Quantity.	Cubic Feet.	No. or Quantity.	Cubic Feet.	
Nellore—*continued.*	Madras ..	Junglewood ..	220,630	Tons 478	..	2,218,779	Tons 2,221	2,439,409	2,699	Sold	2,399,121	Tons 2,654	40,288 6,556	45	Excess found in stock.
		Do. ..	Bdls. 986	30	..	Bs. 50,813	2,033	Bs. 51,799	2,063	Do.	42,136	„ 1,686	9,663	377	
		Casuarina.. ..	..	Tons 118	Plantations ..	..	Tons 2,544	..	Tons 2,662	Do.	..	„ 2,387	..	..	
										Short delivery and dryage.	..	„ 48	..	Tons 227	
		Total, fuel ..	..	Tons 626	..	..	Tons 6,798	..	Tons 7,424	..	Tons 6,775	..	..	Tons 649	
		Nux vomica ..	..	..	..	Mds. 1,650	..	Mds. 1,774	..	Sold	Mds. 1,774	..	..	..	
					Excess on issue..	124									
		Cheyroot	..	..	..	„ 502	..	„ 502	..	Do.	„ 278	..	220	..	
										Dryage..	„ 4				
		Soap-nuts.. ..	..	..	..	„ 288	..	„ 288	..	Sold	„ 214	..	..	..	
										Short delivery . ..	„ 74				
		Tangedu bark ..	Mds. 475	..	..	„ 460	..	„ 935	..	Sold	„ 901	..	..	..	
										Dryage..	„ 24				
										Short delivery.. ..	„ 10				
		Rattans	..	..	..	Bdls. 212	..	Bdls. 212	..	Sold	Bdls. 191	..	Bdls. 21	..	
		Total, minor produce.	Mds. 475	..	..	Mds. 3,024	..	Mds 3,499	..	..	Mds 3,279	..	Mds 220	..	
						Bdls. 212	..	Bdls. 212	..	..	Bdls. 191	..	Bdls. 21	..	Estimated ½ maund each.
Cuddapah.	Kodúr ..	Red sanders roots	..	..	Forest	Tons 1,044	..	Tons 1,044	..	Sold	Tons 1,044	..	..	..	
	Orampad ..	Do. ..	..	..	Do.	„ 1,030	..	„ 1,033	..	Do.	„ 1,030	..	Tons 3	..	
					Excess on issue.	„ 3									
	Peddapad..	Do. ..	..	..	Forest	„ 88	..	„ 88	..	Do.	„ 88	..	..	..	
		Total, timber ..	..	..	..	Tons 2,165	80,827	Tons 2,165	80,827	..	Tons 2,162	80,715	Tons 3	112	At 60 lb. = 1 C. foot.
	Kodúr ..	Bamboos	6,108	..	..	..	..	6,108	..	Sold	6,108	..	..	..	
	Peddapad .	Do.	30,088	..	Balapalle reserve.	472	..	30,560	..	Do. .. .	28,860	..	..	..	
										Taken to Rájampet Range.	1,700	..	..	..	
	Madras ..	Do.	..	..	..	276	..	276	..	Used departmentally ..	197	..	..	..	
										Sold	79	..	..	..	
	Rájampet .	Do.	..	..	Peddapad depôt.	1,700	..	1,700	..	Do.	700	..	..	..	
										Used departmentally..	1,000	..	..	..	
		Total, bamboos ..	36,196	..	..	2,448	..	38,644	..	..	38,644	..	..	..	

Receipts and Issues of Timber and other Produce in sale Depôts during the year 1885-86—*continued.*

District.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1885.		Received during the year.			Total.		Disposed of during the Year.			Balance on 31st March 1886.		Remarks.
			No. or Quantity.	Cubic feet.	Whence received.	No. or Quantity.	Cubic feet.	No. or Quantity.	Cubic feet.	How disposed of	No. or Quantity.	Cubic feet.	No. or Quantity.	Cubic feet.	
Cuddapah—*cont*	Kodúr	Thatch grass ..	..	..	Forest	Ton ½	..	Ton ½	..	Sold	Ton ½	..	..	..	=45 mds. of 25 lb.
		Honey	Md. 1	..	..	..	..	Md. 1	..	Do.	..	..	Md. 1	..	
		Wax	„ 1	..	..	..	..	„ 1	..	Do.	..	..	„ 1	..	
	Cuddapah.	Gallnuts B. ..	Mds. 799	..	Sidout .. .. / Excess in weight	Mds 11 / „ 5	..	Mds. 815	..	Do.	Mds. 815	..	..	..	
	Madanapalle.	Sheakoy	..	..	Horsleykonda ..	„ 54	..	„ 54	..	Do.	„ 54	..	..	..	
		Mangoes	..	..	..	825	..	825	..	Do.	825	..	..	..	
		Pomegranates ..	..	..	..	45	..	45	..	Do.	45	..	..	..	
		Total, minor produce.	Mds 801	..	..	„ 115 / „ 870	..	Mds. 916 / 870	..	.. / ..	Mds. 914 / 870	..	Mds. 2 / ..	.. / ..	Estimate 75 = 1 maund.
Bellary.	Hospet	Firewood	Tons 89	6,130	..	..	..	Tons 89	6,130	Sold .. .. / Dryage	Tons 106 / „ 9	7,690 / ..	..	..	
		Do. creepers.	„ 26	1,560	..	..	..	„ 26	1,560	..	..	..	..	..	
		Total, fuel ..	Tons 115	..	..	..	..	Tons 115	..	..	Tons 115	..	.	..	
	Bellary	Kamila	lb. ¾	..	..	..	..	lb. ¾	..	..	..	..	lb. ¾	..	
		Gallnuts B ..	..	..	Sandur	Mds. 77	..	Mds. 77	..	..	..	..	Mds. 77	..	
		Total, minor produce.	lb. ¾	..	..	Mds. 77	..	Mds. 77 / lb. ¾	.. / ..	.. / ..	.. / ..	.. / ..	Mds. 77 / lb. ¾	.. / ..	
Anantapur	Bukkapatnam.	Teak poles ..	477	40	..	..	..	477	40	Sold .. .. .. / Used departmentally ..	475 / 2	40	..	..	
		Do. pieces ..	108	15	..	..	..	108	15	..	..	..	108	15	
		Total, timber ..	585	55	..	..	..	585	55	..	477	40	108	15	
	Bukkapatnam	Honey	Mds.* 41	..	Kottakota Forests.	Mds. 35	..	76	..	Sold	Mds. 18½	..	Mds. 57½	..	
		Wax	Srs. 139 / Mds. 3½	.. / ..	.. / ..	Seers 68 / Mds. 1¾	.. / ..	Seers 207 / Mds. 5¼	.. / ..	Do. .. .. .. / Dryage	Srs. 175 / Mds. 8 / „ 4¾	.. / .. / ..	Seers 24	..	½ maund.
		Gallnuts C. ..	„ 27	..	..	„ 29	..	„ 56	..	Sold .. .. .. / Dryage	„ 54 / Md. 1	.. / ..	Md. 1	..	
		Do. B. ..	„ 234	..	..	„ 2	..	„ 236	..	Sample	„ 1	..	Mds. 235	..	

* *Vide* remarks in Form No. 69.

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1885-86—*continued.*

District.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1885.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1886.		Remarks.
			No. or Quantity.	Cubic feet.	Whence received.	No. or Quantity.	Cubic feet.	No or Quantity.	Cubic feet.	How disposed of.	No. or Quantity.	Cubic feet.	No. of Quantity.	Cubic feet.	
Anantapur—*cont.*	Bukkapatnam—(*Contd.*)	Tamarind ..	Mds. 24	..	..	Mds. 121	..	Mds. 145	..	Sold	Mds 112	..	Mds. 5	..	
		Yepi fibre ..	..	..	..	,, 5	..	,, 5	..	Wastage	,, 28				
		Banyan seeds ..	Meas. 44	..	..	..	..	Meas. 44	..	Sold	,, 5	..	..	..	
										Written off	Meas. 44	..	..	..	2 mds. estimate.
		Kanuga do. ..	..	..	..	Mds. 19	..	Mds. 19	..	Sample..	Mds. 2	..	Mds. 17	..	
	Gooty ..	Babul pods ..	Tons 6 or Mds. 538	..	Khojjepalle..	Tons 3 or Mds. 269	..	Tons 9	..	Sent to Agricultural Department.	Tons 6	..	Tons 3	..	
		Do. bark ..	Md. 1	..	..	..	..	Md. 1	..	..	..	..	Md. 1	..	
		Total, minor of produce ..	Mds. 870½	..	..	Mds. 481¾	..	Mds 1,352¼	..	..	766¼	..	Mds. 586	..	
Nilgiris.	Coonoor ..	Blue gum drag-poles.	..	..	Kullar reserve..	No. 8	..	No 8	..	..	..	..	8	..	Estimated each ¼ C ft.
	Masnacoil..	Miscellaneous drag-poles.	..	..	Moyar	,, 642	..	,, 642	..	Sold	No. 642	..	..	..	Branch wood.
	Kullar ..	Do. do. ..	..	..	Kullar reserve..	,, 4,085	..	,, 4,085	..	..	,, 3,833	..	252	..	Saplings.
		Total, timber ..	..	..	..	4,735	..	4,735	..	..	4,475	..	260	..	
	Ootacamund.	Firewood (blue gum and shola wood).	Tons 28	..	Governor's shola, Aramby, and Cairn hill.	Tons889	..	Tons 917	..	Sold	Tons 358	..	Tons 359	..	
										Dryage	,, 200				
	Coonoor..	Firewood (blue gums and acacia and shola wood).	..	..	Coonoor Peak Ghât reserve Bandy shola	,, 213	..	,, 213	..	Sold	,, 108	..	,, 81	..	
										Dryage..	,, 24				
	Wellington.	Firewood (blue gum).	..	..	Coonoor Peak..	,, 58	..	,, 58	..	Sold	,, 56	..	,, 2	..	
		Total, fuel ..	Tons 28	..	..	Tons1,160	..	Tons1,188	..	..	Tons 746	..	Tons 442	..	
	Coonoor ..	Blue gum seeds ..	..	..	..	lb. 1¼	..	lb. 1¼	..	Sold	lb. 1¼	..	..	..	
	Kullar ..	Gallnuts C. ..	..	..	..	Mds. 118	..	Mds. 118	..	Do.	Mds. 118	..	..	..	
	Melúr ..	Do. C. ..	..	..	..	,, 260	..	,, 260	..	Do.	,, 255	..	..	..	
										Dryage..	,, 5	..			
	All ranges.	Sheakoy ..	..	..	..	,, 105½	..	,, 105½	..	Sold	,, 105½	..	..	..	
	Kullar ..	Tamarind ..	..	..	..	Md. 1	..	Md. 1	..	..	..	..	Md. 1	..	
		Total, minor produce ..	..	..	..	Mds. 484½	..	Mds. 484½	..	..	Mds. 483½	..	Md. 1	..	

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1885-86—*continued.*

District.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1885.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1886		Remarks.
			No. or Quantity.	Cubic feet	Whence received.	No or Quantity	Cubic feet.	No. or Quantity.	Cubic feet.	How disposed of.	No. or Quantity.	Cubic feet.	No. of Quantity.	Cubic feet.	
								Abstract.							
	..	Teak poles, &c. ..	585	55	..	1,553	9,907	2,138	9,962	..	2,030	9,947	108	15	
	..	Sál logs	729	7,815	..	2,338	27,055	3,067	34,870	..	3,057	34,764	10	106	
	..	Red sanders and roots, &c. ..	..	1,196	..	Tons2,165	..	Tons2,165	..	..	Tons2,162	..	Tons 3	..	
	..	Sleepers and pieces.	809	257	..	1,763	3,813	2,572	5,009	..	2,570	5,002	2	7	
	..	Miscellaneous wood (logs and poles).	594	..	..	10,246	13,895	10,840	14,152	..	9,686	12,266	1,154	1,886	
	..	Fuel	Tons 769	..	..	Tons7,958	..	Tons8,727	..	..	Tons7,636	..	Tons1,091	..	
	..	Bamboos	,, 36,196	..	..	,, 2,448	..	,, 38,644	..	..	,, 38,644	..	..	..	
	..	Nux-vomica ..	..	..	..	Mds.1,774	..	Mds.1,774	..	..	Mds.1,774	..	..	..	
	..	Cheyroot	..	..	..	,, 502	..	,, 502	..	..	,, 282	..	Mds. 220	..	
	..	Soap-nuts ..	..	..	..	,, 288	..	,, 288	..	..	,, 288	..	..	..	
	..	Tangedu	Mds. 475	..	..	,, 460	..	,, 935	..	..	,, 935	..	..	..	
	..	Honey	,, 42	..	..	,, 35	..	,, 77	..	..	,, 18½	..	,, 58½	..	
	..	Wax	,, 4½	..	..	,, 1¾	..	,, 6¼	..	..	,, 4¾	..	,, 1½	..	
	..	Gallnuts B. ..	,, 1,033	..	..	,, 95	..	,, 1,128	..	..	,, 816	..	,, 312	..	
	..	Do. C. ..	,, 27	..	..	,, 407	..	,, 434	..	..	,, 433	..	Md. 1	..	
	..	Sheakoy	..	..	..	,, 159½	..	,, 159½	..	..	,, 159½	..	..	..	
	..	Tamarind ..	Mds. 24	..	..	,, 122	..	,, 146	..	..	,, 140	..	Mds 6	..	
	..	Babul.. { pods ..	,, 538	..	..	,, 269	..	,, 807	..	..	,, 538	..	,, 269	..	
	..	Babul.. { bark ..	Md. 1	..	..	..	..	,, 1	..	..	..	..	Md. 1	..	
	..	Yepi fibre.. ..	..	..	..	,, 5	..	,, 5	..	..	Mds. 5	..	..	..	
	..	Kanuga seeds ..	..	..	..	,, 19	..	,, 19	..	..	,, 2	..	Mds. 17	..	
	..	Fruits	..	..	..	,, 870	..	,, 870	..	..	,, 870	..	..	..	
	..	Kamila dye ..	lb. ¾	..	..	..	..	lb. ¾	..	..	..	..	lb. ¾	..	
	..	Banyan seeds ..	Mds. 2	..	..	..	..	Mds. 2	..	..	,, 2	..	..	..	
	..	Thatch grass ..	..	..	..	Bdls. 45	..	Bdls. 45	..	..	Bdls. 45	..	..	..	
	..	Rattans	..	..	..	,, 212	..	,, 212	..	..	,, 191	..	Bdls. 21	..	
	..	Blue gum seeds ..	..	..	..	lb. 1¼	..	lb. 1¼	..	..	..	..	lb. 1¼	..	

Annual Form No. 71.

Forest Department, Madras, Northern Circle.

Sales of timber and other produce cut and collected by Government agency during the year 1885-86.

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved	Remarks
				Sold from depôt.				RS. A. P.	RS. A. P.			
Ganjam..	..	Russellkonda ..	I (a)	Sál logs	1,845	18,446	14,076 at 6 ans. 4,370 at 1½ ,,	5,278 8 0 550 7 3	5,829 9 9	1,845	..	
				Do. b. g sleepers ..	351	1,219	Rs. 2 1 9 each	741 8 0	741 8 0	351	..	
				Do. m. g do. ..	832	1,822	,, 0 14 10 ,,	775 0 0	775 0 0	157	675	
				Do. n. g. do. ..	1,072	1,436	,, 0 6 8	448 2 0	448 2 0	461	611	
				Do slabs, ends, &c..	5,832	..	Auction.	402 2 9	334 12 10	5,832	..	
				Piasál logs	15	286	Rs. 0 6 0 c. ft.	107 4 0	102 0 0	15	..	
				Ebony	4	72	,, 1 4 0 ,,	90 0 0	71 4 0	4	..	
				Sajo	74	1,161	,, 0 4 0 ,,	290 8 0	263 12 0	74	..	
				Dhau	8	135	,, 0 4 0 ,,	33 12 0	32 0 0	8	..	
				Cotton tree	159	2,146	,, 0 1 6 ,,	201 3 0	201 3 0	159	..	
				Miscellaneous ..	64	754	,, 0 2 10 ,,	129 11 6	126 7 9	64	..	
	..	Surada	Do.	Sál logs	115	1,221	,, 0 6 0 ,,	457 14 0	457 14 0	115	..	
				Do. ..	46	..	,, 1 3 8 each.	56 7 9	56 7 9	46	..	
				Piasál logs	13	116	,, 0 5 0 c. ft.	43 8 0	43 8 0	13	..	
				Sajo	32	510	,, 0 4 0 ,,	127 8 0	127 8 0	32	..	
				Miscellaneous ..	11	..	,, 0 1 10 each.	9 8 9	9 8 9	11	..	
	..	Berhampore ..	Do.	Sál logs	35	284 323	Auction. Rs. 0 8 0 c. ft.	161 8 0 161 8 0	161 8 0	35	..	
				Blackwood	1	14	,, 0 8 0 ,,	7 8 0	..	1	..	
				Piasál	3	31	,, 0 8 0 ,,	15 8 0	..	3	..	
	..	Gopálpur ..	Do.	Sál logs	69	1,250	,, 0 9 0 ,, ,, 0 5 0 ,,	689 2 0	..	69	..	
				Sajo	1	12	,, 0 7 0 ,,	5 4 0	..	1	..	
				Cotton wood ..	100	757	,, 0 1 6 ,,	70 15 6	..	100	..	
	..	Madras.. ..	Do.	Sál logs	20	478	,, 1 12 0 ,,	835 5 3	835 5 3	20	..	
				Total Timber ..	10,702	32,473	..	11,689 11 9	10,617 7 1	9,416	1,286	
				Total Ganjam ..	10,702	32,473	..	11,689 11 9	10,617 7 1	9,416	1,286	
Godávari..	..	Rajahmundry ..	Do.	Teak..	1,553	9,907	Auction.	5,363 7 0	5,363 7 0	1,553	..	Drift timber.
				Miscellaneous ..	205	2,210	..	322 15 6	322 15 6	205	..	
				Total Timber ..	1,758	12,117	..	5,686 6 6	5,686 6 6	1,758	..	
				Total Godávari ..	..	..	..	5,686 6 6	5,686 6 6	..	..	

Sales of timber and other produce cut and collected by Government agency during the year 1885-86—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
								RS. A. P.	RS. A. P.			
Nellore ..	..	Madras.. ..	I (a)	Narudu poles ..	491	732	..	129 14 0	129 14 0	491	..	
				Casuarina	1	2	Rs. 0 9 0 each.	0 9 0	0 9 0	1	..	
	..	Gúdúr	Do.	Sleepers	315	525	„ 1 14 0 „	590 10 0	590 10 0	315	..	
				Rotten post	..	..	..	1 4 6	1 4 6	..	..	
				Total Timber ..	807	1,259	..	722 5 6	722 5 6	807	..	
	..	Madras.. ..	I (b)	Firewood	2,399,121	2,654	..	21,195 14 4	21,195 14 4	2,399,121	..	
				Do. bundles ..	42,136	1,686	..	10,917 1 9	10,917 1 9	42,136	..	
				Do. casuarina..	Tons 2,387	..	..	19,305 4 2	*19,505 4 2	2,387	..	* Rs. 200 deposit is included.
				Total Fuel ..	Tons 6,775	..	..	51,418 4 3	51,618 4 3	Tons 6,775	..	
	..	Madras.. ..	I (e)	Nux-vomica ..	Maunds 1,774	..	S. 10 D. 6 a cwt.	1,697 7 11	1,697 7 11	Mds. 1,774	..	Sold in London.
				Chey root	„ 278	..	..	934 8 1	† 1,769 12 1	„ 278	..	† Includes Rs. 835-4-0 deposit.
				Soap-nuts	„ 214	..	Rs. 8-10-0 percdy.	92 2 8	92 2 8	„ 214	..	
				Tangedu bark ..	„ 901	..	„ 10 0-0 „	450 8 8	450 8 8	„ 901	..	
				Rattans	Bundle 191	..	„ 5-8-0 bundle.	1,073 11 0	1,073 11 0	Bds. 191	..	
				Suratichekka ..	..	..	..	..	5 0 0	..	..	Deposit.
				Total Minor Produce.	Maunds 3,167 Bundles 191	..	..	4,248 6 4	5,088 10 4	Mds. 3,167 Bundles 191	..	
				Total Nellore ..	..	..	..	56,389 0 1	57,429 4 1	..	..	
Cuddapah.	..	Kódúr, &c. ..	I (a)	Red sanders roots, &c.	Tons 2,162	80,715	..	34,272 4 0	34,272 4 0	Tons ‡ 2,162	..	‡ Includes 150 tons paid for last year, but removed this year.
				Total Timber ..	Tons 2,162	80,715	..	34,272 4 0	34,272 4 0	Tons 2,162	..	
	..	Kódúr, &c. ..	I (e)	Bamboos	35,747	..	..	513 11 11	513 11 11	35,747	..	
				Total Bamboos ..	35,747	..	..	513 11 11	513 11 11	35,747	..	
	..	Kódúr, &c. ..	I (e)	Thatch grass ..	Maunds 45	..	Auction.	1 8 0	1 8 0	Maunds 45	..	
				Gallnuts B	„ 815	..	Rs. 7 per candy.	285 4 0	285 4 0	„ 815	..	
	..	Madanapally ..	Do.	Sheakoy	„ 54	..	„ 1-6-0 per md.	74 4 0	74 4 0	„ 54	..	
				Fruits	„ 870 or 12	..	..	26 9 6	26 9 6	„ 870	..	Estimate 75 to a maund.
			Do.	Total Minor Produce.	Maunds 926	..	..	387 9 6	387 9 6	Maunds 926	..	
				Total Cuddapah ..	..	..	..	35,173 9 5	35,173 9 5	..	..	
Bellary ..	..	Hospet	I (b)	Firewood	Tons 106	..	Auction.	166 4 0	166 4 0	Tons 106	..	
				Total Fuel ..	Tons 106	..	..	166 4 0	166 4 0	Tons 106	..	
				Total Bellary ..	..	..	..	166 4 0	166 4 0	..	..	

Sales of timber and other produce cut and collected by Government agency during the year 1885-86—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
								RS. A. P.	RS. A. P.			
Anantapur..	..	Bukkapatnam.	I (a)	Teak poles	475	40	Auction.	27 10 6	27 10 6	475	..	
				Total Timber ..	475	40	..	27 10 6	27 10 6	475	..	
			I (e)	Honey	Maunds 18½	..	..	40 8 9	40 8 9	Mds. 18½	..	
				War	" 4½	..	Rs. 8 7 6 md.	36 6 5	36 6 5	" 4½	..	
				Gallnuts, C. ..	" 54	..	" 0 11 0 "	37 8 9	37 8 9	" 54	..	
				Tamarind	" 112	..	" 0 3 0 "	21 7 0	21 7 0	" 112	..	
				Yepi fibre	" 5	..	" 0 8 6 "	2 12 3	2 12 3	" 5	..	
				Total Minor Produce ..	Maunds 194	..	..	138 11 2	138 11 2	Mds. 194	..	
				Total Anantapur ..	..	..	..	332 9 8	332 9 8	..	..	
Nilgiris ..	..	Kullar, &c. ..	I (a)	Miscellaneous drag poles	4,475	..	As. 3 each.	839 0 0	839 0 0	4,475	..	
	..	Coonoor ..		Do. do. ..	270	..	" 2 "	33 12 0	33 12 0	270	..	
				Total Timber ..	4,745	..	..	872 12 0	872 12 0	4,745	..	
	..	Ootacamund ..	I (b)	Firewood	Tons 358	..	..	2,472 4 0	2,363 8 0	Tons 358	..	
	..	Coonoor ..		Do.	" 104	..	..	617 12 0	617 12 0	" 104	..	
	..	Wellington ..		Do.	" 103	..	..	845 14 8	768 7 0	" 103	..	
				Total Fuel ..	Tons 565	..	..	3,935 14 8	3,749 11 0	Tons 565	..	
	..	Kullar and Mélór	I (e)	Gallnuts	Maunds 373	..	..	195 8 0	195 8 0	Mds. 373	..	
	..	All ranges ..	Do.	Sheakoy	" 105½	..	..	91 7 0	91 7 0	" 105½	..	
				Blue-gum seeds ..	lb. 1½	..	..	9 4 0	9 4 0	lb. 1½	..	
				Total Minor Produce ..	Maunds 478½	..	..	296 3 0	296 3 0	Mds. 478½	..	
				Total Nilgiris ..	..	..	..	5,104 13 8	4,918 10 0	..	..	
				Total Sold from Depôt ..	..	..	..	1,08,856 0 7	1,08,637 12 3	..	..	
				Total Drift ..	..	..	..	5,686 6 6	5,686 6 6	..	..	

Sales of timber and other produce cut and collected by Government agency during the year 1885-86—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
				Sold Locally.				RS. A. P.	RS. A. P.			
Ganjam ..	..	Mojagodo ..	I (*a*)	Sál logs	3,297	36,138	..	10,118 7 6	2,449 4 10	3,297	..	
				Black wood	1	12	As. 4 6 c. ft.	3 6 0	..	1	..	
	..	Kukkúlubá ..	Do.	Sál logs	446	7,694	..	1,291 6 9	..	446	..	
				Sajo	26	356	As. 2 6 c. ft.	68 7 0	..	26	..	
				Dhau	7	102	„ 2 6 „	15 15 0	..	7	..	
				Miscellaneous ..	2	38	„ 1 6 „	3 9 0	..	2	..	
				Total Timber ..	3,779	44,340	..	11,501 3 3	2,449 4 10	3,779	..	
				Total Ganjam ..	..	..	..	11,501 3 3	2,449 4 10	..	..	
Godávari ..	..	Rékapalle ..	I (*b*)	Firewood	Tons 1,279	..	Rs. 3 a ton.	3,837 8 0	3,837 8 0	Tons 1,279	..	
				Do.	„ 350	..	..	137 8 0	137 8 0	„ 350	..	
				Total Fuel ..	Tons 1,629	..	..	3,975 0 0	3,975 0 0	Tons 1,629	..	
	..	Godávari river ..	III	Teak	843	2,844	Auction.	1,340 7 6	1,340 7 6	843	..	Drift timber.
				Miscellaneous ..	67	944	..	112 9 0	112 9 0	67	..	
				Total Timber ..	910	3,788	..	1,453 0 6	1,453 0 6	910	..	
				Bamboos	5,564	..	Auction.	136 8 0	136 8 0	5,564	..	Dirft
				Total Bamboos ..	5,564	..	..	136 8 0	136 8 0	5,564	..	
				Total Godávari ..	..	..	..	3,975 0 0	3,975 0 0	..	..	
Nellore ..	..	Sríbarikót ..	I (*a*)	Stakes and pegs ..	23,643	300	As. 8 0 per 100.	123 3 5	123 3 5	23,643	..	
	..	Rápúr		Sleepers and posts ..	108	167	Auction.	10 2 0	10 2 0	108	..	
	..	Plantation, north		Casuarina pieces ..	2,584	2,347	..	665 4 9	665 4 9	2,584	..	
	..	Do. south.		Do. piles ..	881	1,521	..	467 14 8	467 14 8	881	..	
				Building materials ..	Tons 1¾	..	..	25 3 2	25 3 2	Tons 1¾	..	
				Total ..	27,216	4,335	..	1,291 12 0	1,291 12 0	27,216	..	
	..	Plantations ..	I (*b*)	Casuarina	411	..	..	2,627 7 5	* 2,677 7 5	411	..	* Includes Rs. 50 deposit.
				Brushwood	..	..	Auction.	26 14 0	26 14 0	..	..	
				Part recovery for wood lost in cyclone.	..	..	..	7 12 0	7 12 0	..	..	
	..	Kávali	Do.	Firewood	Cart loads 5	..	..	9 13 11	9 13 11	C. loads 5	..	
				Total Fuel ..	Tons 413½	..	..	2,671 15 4	2,721 15 4	Tons 413½	..	

Sales of timber and other produce cut and collected by Government agency during the year 1885-86—*continued.*

District.	Range	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved	Remarks.
								RS. A. P.	RS. A. P			
Nellore—*continued*	..	Plantations ..	I (*a*)	Cashew nuts ..	Maunds 85	..	..	33 11 0	33 11 0	Maunds 85	..	
				Casuarina seed ..	,, 4	..	..	35 8 6	35 8 6	,, 4	..	
				Cheyroot	..	..	..	..	* 50 0 0	..	..	* Deposit.
				Total Minor Produce ..	Maunds 89	..	..	69 3 6	119 3 6	Maunds 89	..	
				Total Nellore ..	..	..	..	4,032 14 10	4,132 14 10	..	..	
Cuddapah	..	Kódúr ..	I (*a*)	Miscellaneous wood..	..	139	..	71 8 0	71 8 0	..	..	
				Total Timber ..	..	139	..	71 8 0	71 8 0	..	..	
	..	Badvél ..	I (*b*)	Firewood	Tons 4	..	Auction.	8 8 0	8 8 0	Tons 4	..	
				Total Fuel ..	Tons 4	..	..	8 8 0	8 8 0	Tons 4	..	
	..	Kódúr ..	I (*c*)	Bamboos	620	..	Auction.	11 7 7	11 7 7	620	..	
				Total Bamboos ..	620	..	..	11 7 7	11 7 7	620	..	
	..	Rájampet ..	I (*e*)	Thatch grass ..	Ton 1	..	Auction.	2 8 0	2 8 0	Ton 1	..	
				Total Minor Produce ..	Ton 1	..	..	2 8 0	2 8 0	Ton 1	..	
				Total Cuddapah ..	..	..	..	93 15 7	93 15 7	..	..	
Bellary ..	..	Sandúr ..	I (*a*)	Palmyra rafters ..	225	..	Auction.	9 0 0	9 0 0	225	..	Estimate 225 cubic feet.
				Total Timber ..	225	..	..	9 0 0	9 0 0	225	..	
			I (*b*)	Firewood	Tons 215	..	..	732 5 9	732 5 9	Tons 215	..	
				Brushwood	,, 43	..	..	37 3 6	37 3 6	,, 43	..	
				Charcoal	Maunds 3	..	As. 5 0 per md	0 15 0	0 15 0	Maunds 3	..	
				Total Fuel ..	Tons 258	..	..	770 8 3	770 8 3	Tons 258	..	
			I (*e*)	Gallnuts, C. ..	Maunds 56	..	As. 6 0 per md.	21 0 0	21 0 0	Maunds 56	..	
				Honey	Bottles 9	..	,, 8 0 per bot.	4 8 0	4 8 0	Bottles 9	..	½ maund estimate.
				Total Minor Produce ..	Maunds 56½	..	..	25 8 0	25 8 0	Maunds 56½	..	
				Total Bellary ..	..	..	..	805 0 3	805 0 3	..	..	

Sales of timber and other produce cut and collected by Government agency during the year 1885-86—*continued.*

District	Range.	Depot or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
								RS. A. P.	RS. A. P.			
Anantapur	..	Bukkapatnam.	I (a)	Miscellaneous poles..	..	3	..	0 9 0	0 9 0	C. ft. 3	..	
				Babul pieces ..	84	420	..	92 0 0	92 0 0	,, 84	..	
				Miscellaneous pieces.	250	125	..	11 0 0	11 0 0	,, 250	..	
				Total Timber ..	334	548	..	103 9 0	103 9 0	,, 334	..	
	..	Muchukota ..	I (b)	Brushwood	Tons 9	..	..	3 8 0	3 8 0	Tons 9	..	
				Miscellaneous dead wood	..	..	..	30 7 0	30 7 0	..	..	
				Total Fuel ..	Tons 9	..	..	33 15 0	33 15 0	Tons 9	..	
	..		I (e)	Honey	Maunds 6	..	Rs. 2 per maund.	12 0 0	12 0 0	Maunds 6	..	
				Wax	,, ¼	..	..	0 14 0	0 14 0	,, ¼	..	
				Gallnuts, C. ..	,, 25	..	As. 12 per maund	18 12 0	18 12 0	,, 25	..	
				Total Minor Produce ..	Maunds 31¼	..	..	31 10 0	31 10 0	Maunds 31¼	..	
				Total Anantapur ..	..	..	..	169 2 0	169 2 0	..	..	
Nílgiris ..	..	Benné ..	I (a)	Teak	92	2,424	As. 14 0 C. ft	2,122 10 0	2,122 10 0	..	..	
	..	....		Blackwood	Logs 55	1,968	,, 4 0 ,,	492 0 0	492 0 0	..	Logs 55	
				Teak..	182	4,000	,, 12 0 ,,	3,000 0 0	500 0 0	..	..	
	..	Teppacadu block.		Do.		561	As. 14 0 C. ft.	490 14 0	490 14 0	22	160	
	..			Blackwood	60	3,007	,, 4 0 ,,	751 12 0	751 12 0	..	60	
				Vengai	118	3,665	,, 5 6 ,,	1,259 13 6	1,259 13 6	..	118	
	..	Lovedale ..		Miscellaneous saplings	12	..	..	..	..	..	..	
				Total Timber ..	519	1,5625	..	8,117 1 6	5,617 1 6	..	..	
	..	Ootacamund..	I (b)	Firewood (blue-gum).	Tons 1,728	..	..	9,181 7 11	9,181 7 11	Tons 1,728	..	
	..	....		Sholawood	,, 222	..	..	1,318 12 0	1,311 8 0	,, 222	..	
	..	Coonoor ..		Firewood (blue-gum).	,, 570	..	..	1,513 1 6	1,364 9 6	,, 570	..	
	..	....		Do. (Sholawood)	,, 104	..	..	270 10 0	270 10 0	,, 104	..	
	..	....		Do. (acacia) ..	,, 8	..	..	30 4 6	30 4 6	,, 8	..	
				Total Fuel ..	Tons 2,632	..	..	12,314 3 11	12,158 7 11	Tons 2,632	..	
	..	Sígúr	I (d)	Sandalwood roots, &c.	Maunds 910	..	..	3,080 10 0	3,080 10 0	Maunds 910	..	
				Total Sandalwood ..	Maunds 910	..	..	3,080 10 0	3,080 10 0	Maunds 910	..	

Sales of timber and other produce cut and collected by Government agency during the year 1885-86—*continued*.

District.	Range	Depot or locality.	Budget sub-head	Description of timber and other produce.	Number or quantity	Cubic feet.	Rate.	Total amount of sale	Amount actually paid.	Number of logs and pieces, &c., removed	Number sold, but remaining unremoved	Remarks.
								RS. A. P.	RS. A P.			
Nilgiris—*continued*..	..	Sígúr, &c. ..	I (*e*)	Gallnuts, C. ..	Maunds 1,004	..	..	511 8 0	511 8 0	Mds. 1,004	..	
	..	All ranges ..		Sheakoy	,, 23	..	..	18 6 0	18 6 0	,, 23	..	
				Honey	Bottles 82½	..	..	37 8 0	37 8 0	Bottles 82½	..	1 maund = 12 bottles estimate.
				Wax	Maunds 5	..	..	48 6 0	48 6 0	Mds. 5	..	
				Horns	,, 4½	..	..	11 13 0	11 13 0	,, 4½	..	
				Soapnuts	Maund 1	..	..	..	..	Maund 1	..	
				Tamarind	Maunds 5	..	As 8 0 per md.	2 8 0	2 8 0	Maunds 5	..	
				Total Minor Produce ..	Maunds 1,049½	..	..	630 1 0	630 1 0	Mds 1,049½	..	
				Total Nilgiris ..	..	..	..	24,142 0 5	21,486 4 5	..	..	
				Total Sold Locally ..	..	..	..	44,719 4 4	33,111 9 11	..	..	
				Total Drift ..	..	..	..	1,589 8 6	1,589 8 6	..	..	
				Grand Total ..	..	..	..	1,60,851 3 11	1,49,025 5 2	..	..	

ANNUAL FORM No. 72.

Forest Department, Madras, Northern Circle.

Timber and other produce cut, collected and removed from the forests by consumers or purchasers including pasture during the year 1885-86.

Districts.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year	Remarks.
			RS.	RS.	
Ganjam ..	Timber .. .. .. Cart-loads.	212	413	413	
	Total Timber ..	212	413	413	II (*a*). Rs. 460 in form 64.
	Firewood .. .. Cart-loads.	44,551	11,586	11,586	
	Total Fuel ..	44,551	11,586	11,586	II (*b*).
	Bamboos .. .. .. Cart-loads.	7,960	3,156	3,156	
	Total Bamboos ..	7,960	3,156	3,156	II (*c*).
	Lease of fruits	..	604	604	
	Total Minor Produce ..	..	604	604	II (*e*). Rs. 442 in form 64.
	Grand Total Cart-loads ..	52,723	15,759	15,759	Rs. 15,644 in form 64.
Vizagapatam	Nallamaddi trees	62	186	186	
	Timber .. .. .. Cart-loads.	239	255	255	
	Total Timber. Trees .. / Cart-loads.	62 / 239	441	441	II (*a*). Rs. 433 in form 64.
	Firewood .. .. Cart-loads.	5,870	2,193	2,193	
	Charcoal .. .. ,, ..	336	210	210	
	Total Firewood and Charcoal ..	6,206	2,403	2,403	II (*b*). Rs. 2,414 in form 64.
	Bamboos .. .. Cart-loads.	3,242	1,053	1,053	
	Total Bamboos ..	3,242	1,053	1,053	II (*c*). Rs. 979 in form 64.
	Palmyra leaves	..	61	61	
	Total Minor Produce ..	..	61	61	II (*e*). Rs. 60 in form 64.
	Grand Total. Trees .. / Cart-loads ..	62 / 9,687	3,958	3,958	Rs. 3,886 in form 64.
Godávari ..	Timber .. .. Pieces ..	116,519	32,006	32,006	
	Do. .. .. Cart-loads..	2,328			
	Sale-proceeds of trees	..	578	578	
	Total Timber .. Pieces .. / Cart-loads ..	116,519 / 2,328	32,584	32,584	II (*a*). Rs. 32,473 in form 64.
	Firewood .. .. Cart-loads.	14,194	4,898	4,898	
	Sale of dead trees	..	424	424	
	Charcoal .. .. Cart-loads.	124	211	211	
	Total Firewood and Charcoal Cart-loads ..	14,318	5,533	5,533	II (*b*). Rs. 5,633 in form 64.
	Bamboos .. .. No.	264,250	1,321	1,321	
	Do. .. .. .. Cart-loads.	6,585	6,625	6,625	
	Total Bamboos. No. / Cart-loads.	264,250 / 6,585	7,946	7,946	II (*c*). Rs. 7,929 in form 64.
	Grazing	..	1,161	1,161	
	Total Grazing ..	..	1,161	1,161	II (*d*).
	Other minor produce	..	372	372	
	Total Minor Produce ..	..	372	372	II (*e*). Rs. 358 in form 64.
	Grand Total. No. / Cart-loads.	380,769 / 23,231	47,596	47,596	Rs. 47,554 in form 64.

Timber and other produce cut, collected and removed from the forests, &c.—*continued.*

Districts.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			RS.	RS.	
Kistna ..	Timber .. .. .. Cart-loads.	716	1,531	1,531	
	Do. .. .. No.	371	99	99	
	Palmyra trees	..	3,670	3,670	
	Total Timber. { No. / Cart-loads.	371 / 716	5,300	5,300	II (*a*). Rs. 4,736 in form 64.
	Firewood .. .. Cart-loads.	19,245	7,289	7,289	
	Charcoal .. .. ,, ..	182	213	213	
	Total Firewood and Charcoal Cart-loads	19,427	7,502	7,502	II (*b*). Rs. 8,159 in form 64.
	Bamboos .. .. Cart-loads.	1,035	1,044	1,044	
	Split bamboos .. .. ,, ..	56	116	116	
	Total Bamboos Cart-loads ..	1,091	1,160	1,160	II (*c*). Rs. 1,025 in form 64.
	Grazing	..	34,009	34,009	
	Total Grazing ..	..	34,009	34,009	II (*d*). Rs. 30,999 in form 64.
	Thorns .. .. .. Cart-loads.	1,003	570	570	
	Tangedu bark .. .. ,, ..	248	517	517	
	Tsnava . .. .. ,, ..	863	562	562	
	Palmyra leaves	..	612	612	
	Minor produce	..	5,751	5,751	
	Total Minor Produce ..	2,114	8,012	8,012	II (*e*). Rs. 10,352 in form 64.
	Grand Total. { No. / Cart-loads.	371 / 23,348	55,983	55,983	Rs. 55,271 in form 64.
Nellore ..	Palmyra trees	431	473	473	
	Timber .. .. .. Cart-loads.	223	261	261	
	Sale of wood on darkhast lands, &c ..	..	1,782	1,782	
	Total Timber .. { No. / Cart-loads.	433 / 222	2,516	2,516	II (*a*). Rs. 2,571 in form 64.
	Firewood .. .. Cart-loads.	5,271	3,953	3,051	
	Sale of firewood on Asalaminah lands.	..	155	155	
	Total Firewood Cart-loads ..	5,271	4,108	3,206	II (*b*). Rs. 3,198 in form 64.
	Bamboos .. .. Cart-loads.	8	4	4	
	Total Bamboos ..	8	4	4	II (*c*).
	Grazing and fodder grass	..	55	55	
	Total Grazing and Fodder Grass ..	..	55	55	II (*d*).
	Rents of topes, of jungle produce, &c.	..	1,748	1,748	
	Soap-stone licenses	31	61	61	
	Palmyra leaves	129,737	276	276	
	Cocoanut plants	664	42	42	
	Other minor produce	..	167	167	
	Total Minor Produce .. {	31 / 130,401	2,294	2,294	II (*e*). Rs. 2,131 in form 64.
	Grand Total .. { Cart-loads. / No.	5,502 / 130,865	8,977	8,075	Rs. 7,959 in form 64.
Cuddapah ..	Miscellaneous timber * .. Cart-loads.	4,941	13,444	13,444	* As per details given in the same form for 1884-85.
	Sale-proceeds of trees on darkhast lands.	2,080	3,682	3,682	
	Total Timber ..	7,021	17,126	17,126	II (*a*). Rs. 17,288 in form 64.
	Firewood .. .. Cart-loads.	43,684	16,845	16,845	
	Sale of dead trees	6,660	5,909	5,909	
	Engine fuel	33,110	37,116	37,116	
	Charcoal	712	1,234	1,234	
	Total Firewood and Charcoal ..	84,166	61,104	61,104	II (*b*).

Timber and other produce cut, collected and removed from the forests, &c.—*continued.*

Districts	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			RS	RS.	
Cuddapah—*continued.*	Bamboos .. .. No.	578,596	5,457	5,457	
	Total Bamboos ..	578,596	5,457	5,457	II (*c*) Rs. 5,458 in form 64.
	Grass .. .. .. Cart-loads.	816	296	296	
	Total Grass ..	816	296	296	II (*d*).
	Tangedu bark .. .. Cart-loads.	1,678	7,603	7,603	
	Miscellaneous bark .. ,, ..	5,924	32,731	32,731	
	Other minor produce	626	1,753	1,753	
	Total Minor Produce ..	8,128	42,087	42,087	II (*e*). Rs. 42,089 in form 64.
	Grand Total .. Cart-loads / No.	100,131 / 578,596	126,070	126,070	Rs. 1,26,235 in form 64.
Kurnool ..	Timber .. .. .. Cart-loads.	17,497	41,716	41,716	
	Do. poles .. .. .. No	56	1	1	
	Total Timber .. No / Cart-loads.	56 / 17,497	41,717	41,717	II (*a*).
	Firewood .. .. Cart-loads.	22,131	13,330	13,330	
	Charcoal .. .. ,, ..	1,829	2,717	2,717	
	Total Firewood and Charcoal ..	23,960	16,047	16,047	II (*b*). Rs 16,112 in form 64.
	Bamboos.. .. .. Cart-loads.	11,109	10,317	10,317	
	Total Bamboos ..	11,109	10,317	10,317	II (*c*).
	Grazing	..	1,510	1,510	
	Total Grazing ..	..	1,510	1,510	II (*d*) Rs. 1,514 in form 64
	Minor produce bark .. Cart-loads.	1,562	1,970	1,970	
	Total Minor Produce ..	1,562	1,970	1,970	II (*e*). Rs. 1,965 in form 64.
	Grand Total .. No. / Cart-loads.	56 / 54,128	71,561	71,561	Rs. 71,625 in form 64.
Bellary ..	Timber .. .. No.	425	338	338	
	Do. .. .. .. Cart-loads.	21			
	Miscellaneous .. .. .. No.	375	48	48	
	Do. .. .. Cart-loads.	20			
	Total Timber .. No / Cart-loads.	800 / 41	386	386	II (*a*) Rs. 425 in form 64.
	Firewood .. .. Cart-loads.	6,336	2,544	2,549	
	Charcoal .. .. ,, ..	490	786	786	
	Total Firewood and Charcoal ..	6,828	3,330	3,335	II (*b*).
	Bamboos .. .. No.	32,133	443	443	
	Do. .. .. .. Cart-loads.	4	8	8	
	Total Bamboos .. No / Cart-loads.	32,133 / 4	451	451	II (*c*). Rs. 452 in form 64.
	Grass .. .. .. Cart-loads.	5,688	2,107	2,107	
	Grazing fees .. .. Head-loads	4,196	93	93	
	Total Grazing and Fodder Grass. Cart-loads / Head-loads.	5,688 / 4,196	2,200	2,200	II (*d*) Rs. 2,201 in form 64.
	Tangedu bark .. .. Cart-loads.	899	4,496	4,496	
	Vala ,, ... ,, ..	11	22	22	
	Leaves for manure	16	6	6	
	Rent of fruit trees	..	6,602	6,602	
	Total Minor Produce ..	926	11,126	11,126	II (*e*).
	Grand Total .. No. / Cart-loads.	37,129 / 13,485	17,493	17,498	Rs. 17,539 in form 64.

Timber and other produce cut, collected and removed from the forests, &c.—*continued.*

Districts.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			RS	RS.	
Anantapur ..	Palmyra trees .. .. .. No.	167	503	503	
	Miscellaneous trees .. .. ,,	26	32	32	
	Timber .. .. .. Cart-loads.	106	369	369	
	Total Timber .. No.	193	904	904	II (*a*). Rs. 905 in form 64.
	Total Timber .. Cart-loads.	106			
	Firewood .. .. Cart-loads.	1,219	1,514	1,514	
	Charcoal .. .. ,, ..	42	67	67	
	Total Firewood and Charcoal ..	1,261	1,581	1,581	II (*b*). Rs. 1,611 in form 64.
	Bamboos	..	..	..	II (*c*). Rs. 1,222 in form 64.
	Grass	..	14	14	
	Total Grass ..	..	14	14	II (*d*).
	Tangedu bark .. .. Cart-loads.	224	5,570	5,570	
	Do. leaves .. ,, ..	704	1,320	1,320	
	Palmyra ,, ... ,, ..	..	53	53	
	Jolli contract	..	1,251	1,251	
	Amroy ,, ...	..	3,610	3,610	
	Total Minor Produce ..	928	11,804	11,804	II (*e*). Rs. 10,582 in form 64.
	Grand Total .. No.	193	14,303	14,303	Rs. 14,334 in form 64.
	Grand Total .. Cart-loads.	2,295			
Nilgiris ..	Teak trees	2	10	10	
	Miscellaneous timber .. Cart-loads.	179	1,163	1,163	
	Do. ,, .. No.	611			
	Total Timber .. Cart-loads.	179	1,173	1,173	II (*a*). Rs. 1,213 in form 64.
	Total Timber .. No.	613			
	Firewood .. .. Cart-loads.	4,473	5,078	5,078	
	Charcoal .. .. ,, ..	2	12	12	
	Total Firewood and Charcoal Cart-loads ..	4,475	5,090	5,090	II (*b*). Rs. 5,311 in form 64.
	Bamboos (large and small .. No.	72,412	1,096	1,096	
	Do. (do.) Cart-loads.	391			
	Do. split .. .. ,, ..	296	740	740	
	Total Bamboos .. No.	72,412	1,836	1,836	II (*c*). Rs. 1,839 in form 64.
	Total Bamboos .. Cart-loads.	687			
	Grass .. .. .. Cart-loads.	517	161	161	
	Grazing fees	..	53	53	
	Total Grazing Cart-loads ..	517	214	214	II (*d*). Rs. 209 in form 64.
	Coffee seeds	..	16	16	Rent.
	Canes .. .. .. Cart-loads.	9	9	9	
	Reeds .. .. No.	10,450	41	41	
	Do. .. .. .. Cart-loads.	11			
	Wattle .. .. .. ,, ..	29	47	47	
	Vembadam, &c., bark	7	74	74	
	Other minor produce	4	3	3	
	Indigenous plants .. .. No.	1,000	10	10	
	Sweet flags	..	15	15	
	Elephant tusks	2	15	15	
	Total Minor Produce .. No.	11,452	230	230	II (*e*). Rs. 236 in form 64.
	Total Minor Produce .. Cart-loads.	60			
	Grand Total .. No.	84,477	8,543	8,543	Rs. 8,808 in form 64.
	Grand Total .. Cart-loads.	5,918			
	Grand Total of Revenue of the Northern Circle under II. No.	1,212,518	3,70,243	3,69,346	Rs. 3,68,855 in form 64.
	Grand Total of Revenue of the Northern Circle under II. Cart-loads.	290,448			

ANNUAL FORM No. 73-A.

Forest Department, Madras, Northern Circle.

Abstract showing the value of timber and other produce at Sale Depôts for the year 1885-86.

Districts.	Description of timber and other produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.		Remarks.
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favor of the year.	Against the year.	
				RS.			RS.	RS.	RS.	
Ganjam	Sál logs	637	7,718	5,242	9	102	101	..	5,141	
	Do. sleepers	494	671	250	2	7	1	..	249	
	Do. slabs, &c.	1,143	..	55	52	..	6	..	49	
	Do. poles	105	..	75	..	..	..	..	75	
	Píasal logs	12	97	60	1	4	2	..	58	
	Sissua ,, (blackwood)	4	52	35	2	15	9	..	26	
	Miscellaneous logs	13	105	30	57	980	569	539	..	
	Do. poles	15	..	10	..	..	..	..	10	
	Total, Ganjam ..	2,423	8,643	5,757	123	1,108	688	..	5,069	
Nellore	Miscellaneous poles and sleepers	877	525	661	831	843	261	..	400	
	Firewood	Tons 615	..	4,975	Tons 649	..	5,213	238	..	
	Tangedu bark	..	..	404	..	..	..	..	404	
	Rattons Bundle	..	..	..	Bundles 21	..	115	115	..	
	Cheyroot	..	..	..	Mds. 220	..	880	880	..	
	Total, Nellore ..	..	..	6,040	..	..	6,469	429	..	
Cuddápah ..	Redwood roots, &c.	..	..	..	Tons 3	..	50	50	..	
	Bamboos	36,196	..	724	..	..	..	..	724	
	Minor produce	Mds. 801	..	252	Mds. 2	..	2	..	280	
	Total, Cuddapah ..	..	..	1,006	..	..	52	..	954	
Bellary	Firewood	Tons 115	..	582	..	..	..	..	582	
	Minor produce	lb. ¾	..	1	Mds. 77 lbs. ¾	..	29 1	29	..	
	Total, Bellary ..	..	..	583	..	..	30	..	553	
Anantapur ..	Teakwood (poles, spokes and felloes) ..	585	..	67	108	15	19	..	48	
	Minor produce	Mds. 870½	..	3,140	Mds. 586	..	530	..	2,610	
	Total, Anantapur ..	..	..	..	..	..	549	..	2,658	
Nílgiris	Miscellaneous poles	..	..	..	260	..	48	48	..	
	Firewood	Tons 28	..	87	Tons 442	..	2,776	2,689	..	
	Minor produce	..	..	..	Md. 1	..	1	1	..	
	Total, Nílgiris ..	..	..	87	..	..	2,825	2,738	..	
	Grand Total ..	..	..	16,680	..	..	10,613	..	6,067	

ANNUAL FORM No. 73-B.

Forest Department, Madras, Northern Circle.

Return of stores, tools and plant on 1st April 1886.

Districts.	Description of stores, &c.	On hand at commencement of the year.		On hand at close of the year.		Difference in value.		Remarks.
		Number.	Value.	Number.	Value.	In favor of the year.	Against the year.	
			RS.		RS.	RS.	RS.	
Direction ..	Surveying and other instruments.	8	95	14	174	..	..	
	Furniture	53	539	60	572	..	..	
	Total ..	61	634	74	746	112	..	
Ganjam ..	Bungalow, head-quarters.	1	1,350	1	1,350	..	..	Russellkonda.
	Bungalow, inspection ..	4	750	4	750	..	..	Surada.
	Inspection huts	12	585	12	585	..	..	
	Guard's sheds	3	20	3	20	..	..	
	Furniture	9	30	14	95	..	..	
	Tools	115	170	110	188	..	..	Five worn out.
	Surveying and other instruments.	8	126	10	128	..	..	
	Miscellaneous	1	8	1	8	..	..	
	Total ..	153	3,039	155	3,124	85	..	
Vizagapatam.	Sheds	2	45	2	45	..	..	
	Tools	5	2	5	2	..	..	
	Surveying and other instruments.	5	95	7	95	..	..	
	Furniture	..	..	9	119	..	..	
	Total ..	12	142	23	261	119	..	
Godávari ..	Sheds	1	10	2	60	..	..	Old one tumbled down and the new one destroyed by fire.
	Surveying and other instruments.	7	40	7	40	..	..	
	Tools	..	..	1	5	..	..	
	Furniture	24	111	29	151	..	..	
	Miscellaneous	3	13	..	..	..	..	
	Total ..	35	174	39	256	82	..	
Kistna ..	Surveying and other instruments.	13	..	13	..	..	..	
	Tools	508	12	385	21	..	..	One-hundred and twenty-three worn out.
	Furniture	16	60	17	90	..	..	
	Total ..	537	72	415	111	39	..	
Nellore ..	Cash safes	4	195	4	195	..	..	
	Scales and weights, sets..	5	209	6	310	..	..	
	Furniture	75	440	99	363	..	..	
	Boxes	19	53	19	10	..	..	
	Tools	656	422	480	377	..	..	
	Surveying and other instruments.	15	80	16	158	..	..	
	Miscellaneous	16	13	16	8	..	..	
	Tramways	..	..	2	13,800	..	..	
	Boats	..	..	6	2,380	..	..	
	Total ..	790	1,412	648	17,599	16,187	..	
Cuddapah ..	Bungalow, inspection ..	4	15,650	4	15,650	..	..	Kodur, Sanipaya, Balapalle and Horsleykonda.
	Ranger's house	3	970	3	1,020	..	..	Kodur, Sidhout and Rajampet.
	Office house	1	200	1	200	..	..	Kodur.
	Sheds	31	596	58	960	..	..	
	Surveying and other instruments.	15	153	15	153	..	..	
	Tools	277	155	388	413	..	..	
	Furniture	45	306	59	580	..	..	
	Building materials ..	..	40	..	..	..	..	
	Total ..	376	18,070	528	18,976	906	..	

Return of stores, tools and plant, &c.—*continued.*

Districts.	Description of stores, &c.	On hand at commencement of the year.		On hand at close of the year.		Difference in value.		Remarks.
		Number.	Value.	Number.	Value.	In favor of the year.	Against the year.	
			RS.		RS.	RS.	RS.	
Kurnool ..	Bungalow, head-quarters.	1	644	1	644	..	..	Value of Nandiyál bungalow site.
	Bungalow, inspection ..	19	4,747	19	7,447	..	..	Three incomplete.
	Ranger's houses ..	4	650	4	1,476	..	..	
	Sheds	14	465	14	1,065	..	..	One incomplete.
	Furniture	28	146	30	162	..	..	
	Tools	348	500	348	500	..	..	
	Surveying and other instruments.	14	206	16	206	..	..	
	Total ..	428	7,358	432	11,500	4,142	..	
Bellary ..	Ranger's house	..	..	1	460	..	..	
	Surveying and other instruments.	..	..	2	67	..	..	
	Furniture	12	140	13	141	..	..	
	Tools	55	28	57	29	..	..	
	Total ..	67	168	73	697	529	..	
Anantapur ..	Bungalow	..	..	1	800	..	..	
	Sheds	15	19	15	19	..	..	
	Surveying and other instruments.	17	74	18	75	..	..	
	Furniture	1	20	17	157	..	..	
	Cash safe, with pad-lock.	..	..	1	12	..	..	
	Tools	104	40	103	138	..	..	
	Total ..	137	153	155	1,201	1,048	..	
Nilgiris ..	Sheds	18	805	22	942	..	..	
	Surveying and other instruments.	2	60	11	69	..	..	
	Furniture	27	276	27	276	..	..	
	Tools	332	742	493	1,106	..	..	
	Elephants	2	3,000	2	3,000	..	..	
	Do. calf	..	..	1	500	..	..	
	Miscellaneous.							
	Chains of elephants ..	8	240	8	240	..	..	
	Total ..	389	5,123	564	6,133	1,010	..	
	Grand Total ..	2,985	36,345	3,106	60,604	24,259	..	

Annual Form No. 74.

Forest Department, Madras.

Statement of elephants in the Northern Circle during the year 1885-86.

Part I.

Elephants in possession of the reporting officers throughout the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of monthly keep including servants and food.				Remarks.
				RS.	A.	P.	
Nilgiris ..	Lakshmi	Transferred from the Anamalais on the 30th January 1882	April 1885	113	9	8	
	Chinna Lakshimi..		May ,, ...	125	6	4	
			June ,, ...	120	0	0	
	Mabubakash ..	Born in January 1885.	July ,, ...	112	3	0	
			August ,, ...	121	9	0	
			September ,, ...	78	7	1	
			October ,, ...	86	9	2	
			November ,, ...	98	2	4	
			December ,, ...	132	11	1	
			January 1886	125	8	11	
			February ,, ...	110	13	5	
			March ,, ...	110	13	5	
			Total ..	1,335	13	5	

PART II.

Elephants received in the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of keep including servants and food.		Remarks.
				RS. A P	
Nilgiris ..	Female elephant ..	Captured in the Sigur forests on the 4th November 1885	November 1885	27 8 0	
			December ,, ...	48 8 4	
			January 1886	34 4 2	
	Male elephant ..	Captured in the Sigur forests on the 23rd November 1885.	Total ..	110 4 6	

PART III.

Elephants gone off the list during the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of keep including servants and food.		How disposed of.
				RS. A. P.	
Nilgiris ..	Female elephant ..	Captured	....	110 4 6	Died on the 4th Dec 1885.
	Male elephant ..	Do.			Died on the 3rd Feb 1886.

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

READ—the following Proceedings of the Board of Revenue, dated 18th January 1887, Forest No. 19 :—

Read—the following letter from Lieutenant-Colonel I. CAMPBELL WALKER, Conservator of Forests, Southern Circle, to the Secretary to the Board of Revenue, dated Coimbatore, 28th July 1886, No. 937 :—

Conservator's report with nineteen returns, Salem district map showing the range and sub charges, beats, &c., and preliminary working scheme for the Sholakarai Block, Bolampatti reserved forest.

I have the honor to submit the annual administration report for the Southern Circle for the year 1885-86, together with the usual returns except form No. 16, and to request that the proof may be sent to me for correction.

2. Notwithstanding the Board's orders (No. $\frac{2709}{\text{Forest } 524}$, of 22nd September) enjoining care and punctuality in the submission of the district annual reports, I regret to have to state that not one single report was received on the due date (15th May) and that the last only reached the Madras office on the 9th June, whilst supplemental reports kept coming in until the 10th July.

3. The preparation of the returns for several districts displays a want of care and accuracy, the closing and opening figures not corresponding.

4. This is in some measure due to the late date on which the annual report for 1885-86 was communicated to Collectors and District Forest-officers. It was not printed with the Board's Proceedings reviewing it quoted above, nor even with the Government Order communicated by Proceedings, No. 215, Forest, of 28th April 1886. District Forest-officers were therefore unable to compare and verify their figures and note the points to which attention was drawn by the Conservator, the Board, and Government.

5. I would therefore suggest that at least twenty copies of the report and returns be in future sent to me with the Board's review for distribution to District Forest-officers with any necessary instructions.

ENCLOSURE.—Administration Report for 1885-86.

READ—the following letter from J. S. GAMBLE, Esq., Conservator of Forests, Northern Circle, to the Secretary to the Board of Revenue, dated Madras, 26th July 1886, No. 1019 :—

I have the honor to submit the annual report of forest operations for the Northern Circle for 1885-86, and to request the favor of your directing the proofs to be sent to me for correction at a very early date. I regret the delay in submission due to late receipt of district returns as recorded in the last paragraph of my report.

ENCLOSURE.—Administration Report for 1885-86.

Resolution—dated 18th January 1887, Forest No. 19.

The Board submit the Conservators' reports of Forest administration for the year 1885-86 to Government, with the usual review.

2. *General.*—The strength of the department in the year was 2 Conservators, 13 Deputy Conservators, 12 Assistant Conservators, 9 Sub-Assistant Conservators, 43 Rangers, 114 Foresters, and 642 Guards; the cost of this establishment and of the work that it did was Rs 9,36,421, the revenue that it brought in was Rs. 11,98,600, and the net profit to Government was, therefore, Rs. 2,62,179 or 22 per cent. of the gross receipts; this present result, when it is considered how much of the profit of forest work can only be looked for in the future, and how much of its benefits are not to be appreciated in money at all, must be held satisfactory.

3. *Reservation.*—The main work of this year as of the last was the selection and reservation—in part as wholly reserved forests, and in part as partially reserved lands of various descriptions—of the land that is to form the permanent forest area of the Presidency. Such reservation is necessary before the trained forester can enter and take complete possession, and in this direction, therefore, it is satisfactory to note that 507½ square miles were made reserved forests in the year, that 748 square miles in the Southern Circle and 32 blocks in the Northern Circle were "proposed" for similar reservation, and that 2,212 square miles were made reserved lands; the following statement shows the work done both in each circle and as compared with last year; the figures of actual settlement are larger for the Southern Circle than for the Northern, but to the credit of the latter it must be remembered that large areas in Kurnool and Cuddapah only await final notification, and that the circle was only partially provided with special Forest Settlement-officers, without whom experience has shown that progress is but slow. The districts of Coimbatore, Madura, Tinnevelly, North Arcot and the Nílgiris appear to be the most forward in settlement.

Circles	Area of reserved forests		Area of reserved lands		Area of leased and other forests	
	On 31st March 1885.	On 31st March 1886	On 31st March 1885.	On 31st March 1886	On 31st March 1885	On 31st March 1886.
	SQ MLS	SQ MLS				
Southern Circle	1,113	1,526	1,291	3,503	1,156	1,126
Northern „	7½	102	3,593	3,557	263	137

4. Village forests were selected on the Nílgiris and were in process of selection in Nellore and Cuddapah; in other districts, the provision of village forests was found to present difficulties, and proposals are, therefore, now before the Board, which, when eventually disposed of by Government, will probably furnish the villagers in other ways with the equivalent of the free privileges which they would expect to obtain from their village forests.

5. The selection of areas is now almost complete, and, allowing for a few additions, the extent shown in the statement below may, therefore, virtually be taken to be all that is ever likely to come under reservation, in this presidency, as forest; it will only remain, as settlement progresses, to transfer from the head of reserved lands to the head of reserved forests:—

	Area of reserved forest	Area of reserved lands	Leased forests	Other forests.
	SQ. MLS.	SQ. MLS.	SQ MLS.	SQ. MLS.
Southern Circle	1,526	3,503	...	1,126
Northern „	102	3,557	136½	...

6. *Fire-protection.*—In the protection of *special* areas, there was, as the subjoined statement shows, a considerable advance in the Southern Circle on last year; not only was more land taken up, but it was also better protected; 98 per cent. of the area

attempted was successful, the total expenditure on fire-protection from the commencement of operations up to date being Rs. 43,500 for the Southern Circle, of which one-fourth was spent in the year under report.

7. In the Northern Circle, on the other hand, 150 square miles, the protection of which had been attempted in the previous year, were given up, and, even so, the Conservator reports that the hot season of 1886 was the worst on record since his circle was formed; the total expenditure, up to date, in the Northern Circle has been Rs. 31,300, of which one-fifth was spent in the year under report, and 96 per cent. of the area attempted was successful; the cost per acre was in the year 3·8 pies for the Southern Circle, and 2·73 pies for the Northern Circle; and altogether up to date, 8·04 pies for the Southern Circle and 6·7 pies for the Northern Circle.

8. In both circles, fires in many instances are ascribed to incendiaries, notably in Cuddapah and Wynaad; protective measures would appear to be most forward in Cuddapah, Bellary, the Nílgiris and Anantapur in the Northern Circle, and in North Arcot, South Arcot, and Salem in the Southern Circle. The Board would be glad to have some assurance that such figures as those, for instance, for Ganjam are correct:—

Circles.	Area attempted.		Fires.		Area actually protected	
	1884-85.	1885-86.	1884-85.	1885-86.	1884-85.	1885-86.
	sq. mls.	sq. mls.	sq. mls.	sq. mls.	sq. mls.	sq. mls.
Southern Circle	744·8	906·0	14·0	15·0	730·8	891·0
Northern ,, ...	720·5	577·0	23·6	23·0	696·9	554·0

9. Neither Conservator pretends to be able to furnish figures of any accuracy showing the areas that escape fire, with only *general* measures of protection; the Conservator, Southern Circle, gives some figures, but remarks that they are the same as last year's, and the Conservator, Northern Circle, gives none. The Board themselves would be disposed to deprecate the attention of Forest-officers being diverted from the absolute necessity of special measures, it can seldom be that areas even for a time escape fire without such special measures, and if they do, the fire, when it comes, is only the more destructive for the delay.

10. *Demarcation and fencing.*—In the Southern Circle 193 miles of lines were cleared round *reserved forests* at a cost of Rs. 3,317; these seem to have ranged from the permanent stone wall, 3 feet high and 1½ feet broad, built at a cost of Rs. 500 per mile, round the Annamalai reserved forest in South Arcot, to the mere erection of wooden posts, with white-washed chatties on the top, erected at a cost of Rs. 4 per mile, round the Vellamundi reserved forest in North Coimbatore; the average cost on the whole was Rs. 17 a mile; as the Conservator points out, so much depends on the configuration of the ground and the nature of the undergrowth that a fair comparison is hardly possible; work was only carried on in six forest charges.

11. In the Northern Circle, Rs. 13,060 were spent on demarcation, but the exact distance demarcated is not given; in Cuddapah, 119 miles were roughly cleared at a cost of Rs. 19 per mile; in Kurnool, 4 miles of new line at the foot of the Nallamalai were cut and 57 miles done in previous years were re-cleared of the heavy undergrowth which springs up afresh each year in the rains; in the Nílgiris, 450 miles, at a cost of Rs. 3,858 were done, though not so thoroughly as the Conservator would have wished; in Bellary, 3¼ miles of the Sandur boundary was made into a permanent cart-track at a cost of Rs. 80 per mile; and in Anantapur, 54 miles of demarcation was done at a cost of Rs. 7 a mile; on the whole the work seems to have been well pushed on in the Northern Circle, though none was done in Kistna and Nellore.

12. On the demarcation of *reserved lands* no money was spent in the Northern Circle; but in the Southern Circle, 600 miles of boundary lines were cleared and demarcated in a preliminary manner at a cost of Rs. 2,000. The average cost per mile was Rs. 3⅓, and for this stout 9 feet poles, tarred at the bottom, surrounded by 3 feet cairns of stones and surmounted with white-washed chatties, were erected; the chief work was done in Salem and North Coimbatore.

13. In this connection, it should be mentioned that Mr. Peet, Deputy Conservator, was deputed to represent the Madras Government in the settlement of a disputed part of the Travancore-Coimbatore boundary, and that the result of his careful work has since been that his contention was accepted by the arbitrator and that the Madras Government has been the gainer of a considerable area of good cardamom country; for this, Mr. Peet has already received the thanks of Government.

14. *Roads and buildings.*—On roads Rs. 6,988 were spent in the Southern Circle and Rs. 2,191 in the Northern Circle; in the former the money was equally divided between new works and repairs, the most important new works being portions of ghât roads in Tinnevelly and 1½ miles of tramway in North Arcot, and the chief repairs being to roads on the Anamalai in South Coimbatore; in the latter, the money was chiefly spent in the repair of old roads on the Nílgiris, on 2½ miles of new hill road in Cuddapah, and on the clearing of 73½ miles of former cart-tracks in Kurnool. Wherever possible, the same line has been made to serve the threefold purpose of a fire line, a demarcation line, and a road.

15 The expenditure on buildings was in the Southern Circle Rs. 14,071, and in the Northern Circle Rs. 8,965; the chief new works done in the Southern Circle were the construction of a range head-quarters at Begúr in the Wynaad-Pálghat range, a bungalow and ranger's house in course of construction at Mountstuart in South Coimbatore, and rest-houses and guards' and tannadars' huts in Madura, South Coimbatore and South Arcot. In the Northern Circle thirteen rest-houses in the interior of the Nallamalais were completed and seven more were almost completed; three rangers' houses were also built at the foot of the hills and guards' and tannadars' huts were erected; in Bellary a range-house was built at Sandur, and in Anantapur the head quarters bungalow was nearly finished; repairs to existing buildings were also carried on on the Nílgiris, in Cuddapah and in Ganjam. The Nandyál head-quarters bungalow had to be postponed owing to the reduction order, and the Forest-office at Waddagudem, in the Godávari district, was burnt down, it is supposed, by incendiaries.

16. In the Nellore district, in connection with the Sríharikót departmental work, four canal boats were built during the year, and 2¼ miles of tramway, purchased from Messrs. Fowler and Co., were laid down; the result was a considerable saving in the cost of working, more especially in the case of the tramway, and the Conservator hopes that before long it may be found possible to lay down similar tramway lines elsewhere.

17. *Surveys.*—But little survey work was done in the year by Forest-officers, the work being limited to the running of a chain and compass survey round the exterior lines of forest blocks in certain districts; in the Southern Circle, such work was done in North Arcot, Salem, South Coimbatore and South Canara; in the Northern Circle, advantage was taken of existing village and taluk maps, and no special work was done. The Revenue Survey department worked on the lower Palnis in Madura, on the banks of the Cauvery and Coleroon in Trichinopoly, and on the Wálayár reserved forest in Pálghat. The total expenditure on surveys was Rs. 1,068 in the Southern Circle and Rs. 39 in the Northern Circle; arrangements have lately been made under the orders of Government, which will, it is hoped, systematize and facilitate this important work.

18. *Exotics.*—Mahogany may almost be said to have advanced beyond the experimental stage; healthy and vigorous germination is reported from both circles, and from districts so dissimilar as Madura, Bangalore, and Nilambúr; at the last-named place, trees 6½ years old, average 20 feet in height and 17 inches in circumference at base; the Cerea rubbers also appear to have established themselves, so far as mere growth is concerned; they have yet, however, to prove their milk-producing capabilities. No eucalypts appear to have been discovered suitable for growth on the plains, though E. *citriodora* is reported to be doing fairly at moderate heights; young Ipecacuanha plants are said to be doing well at Nilambúr, as also is the Giant bamboo. Conifers and Maples from Northern India are coming up on the Nílgiris, and Manilla hemp and the edible date promise well in the Southern Circle; the introduction of the latter has been taken up more vigorously in the current year.

19. Seeds of the South African sneeze wood, sent through the kindness of a former Indian officer, Mr. Hutchins, failed to germinate, but seedlings of the other South African woods, assegai wood, yellow wood and outeniqua wood, were successfully raised.

20. *Artificial reproduction.*—In the Southern Circle, the area of *plantations* was acres 12,233, a decrease of 90 acres on last year's figures; 310 acres of new planting were actually added, but this was more than counterbalanced by the transfer of a considerable area of "teri" (sandy waste) in Tinnevelly to the heading "cultural operations"; the cost is shown as Rs. 4,70,246 less than in last year, but of this over 4½ lakhs represents a mere paper adjustment of expenditure on the Nilambúr plantations. The largest areas are in Trichinopoly, Nilambúr, North Arcot and South Arcot; the padugai plantations in the first-named district have proved successful, and it is proposed to extend them both there and in Tanjore; the receipts, in fact, from "plantations" generally are said to more than justify expectations. The Conservator reports, in connection with Nilambúr, what, it is believed, is the case all over the Presidency, viz., that the chief demand is for small-sized saplings and poles, rather than for larger timber, which requires to be sawn; and the fact should not be lost sight of in connection with the drawing up of working plans.

21. The area in the Northern Circle was 6,426 acres against 6,624 acres in the previous year and the cost up to date Rs. 4,05,122 against Rs. 3,90,568; 90 acres of useless land in Kistna and 44 acres in Nellore were abandoned and 331 acres in Anantapur were excluded and made a reserved forest; on the other hand, 80 acres of new plantation were added in Nellore and 47 acres on the Nílgiris, and an experimental garden of 46 acres was formed under the Collector's supervision at Masulipatam. The districts with the largest "plantation" figures in the Northern Circle are Nellore, Cuddapah and the Nílgiris; in the first, the growth is mainly casuarinas, and the District Forest-officer, Mr. Vincent, provides an interesting record of the cost and yield of each block up to date; from this statement, the work of late years promises to be very much cheaper than that of former years, and the growth is also reported to be better: in Cuddapah, the red sander trees are reported to give a mean annual radial increment of ·06 inches only, but the Conservator hopes that the rate of growth will increase with thinning: natural grown seedlings are reported to be plentiful, and efforts are being made to utilize these in restocking blanks: a considerable area was also planted in Cuddapah with palmyra-seeds, mainly on the sandy banks of the river Pennér. On the Nílgiris, bluegums, conifers and maples were planted out in large numbers, and mostly with success; a large number of the cryptomerias, however, were killed off by drought. The restocking of sholas with indigenous trees is also reported to promise well.

22. The chief *cultural operation* in the Southern Circle was the reclamation of 110 acres of "teri" or sandy waste, in Tinnevelly, on which 75,000 palmyra seeds were put down, and 210 measures of seed of *Acacia planifrons* dibbled in: in the Northern Circle a certain amount of work was done in Cuddapah and Nellore, in the way of miscellaneous sowings of babul, dirisana and margosa in the natural forest and in prickly-pear; successful broadcast sowings were also made—within fenced areas, it is presumed—of tangedu: the totals are entered for each circle as follows: Southern Circle 557 acres, 868 rupees; Northern Circle 486 acres, 1,111 rupees.

23. 13,161 acres are under *topes* in the Northern Circle and 17,599 acres in the Southern Circle; the expenditure on them was Rs. 3,039 in the Northern Circle and Rs. 9,040 in the Southern Circle: no new topes appear to have been planted; one tope in Cuddapah was bought by the Local Fund Board who built a chattram in it; this course might possibly be followed in other cases of roadside topes and the money so liberated spent in the formation of new ones, for the creation of which the next generation must necessarily be dependent on this.

24. Neither Conservator pretends to be able to give accurate figures of area or cost under the head of "plantations and topes," but the figures are gradually being checked, and in a few years it is hoped that they will be correct.

25. *Natural reproduction.*—In this important matter, which may conveniently be noticed here, it is satisfactory to note that both Conservators report favorably of the

effects of even partial protection on new growth, while in regard to more thorough protection, the Conservator, Southern Circle, "vouches for marked improvement." Of the more valuable woods, red sanders is reported both to coppice vigorously and to seed profusely, the seed germinating well: the same is the case with teak, though the teak seedlings are said to die down after beginning well; bluegum also on the Nílgiris reproduces naturally and freely both from seed and from coppice; the reproductive powers of iron-wood were noticed last year: casuarina coppice, on the other hand, does not appear to be a success. It would be interesting to learn how the better class of trees fares in the struggle for existence as compared with the less valuable kinds.

26. A dense growth of coarse grass is reported in some cases to be the first result of protection, and the Conservator, Southern Circle, proposes to keep this down partly by grazing and partly by cutting; in the latter connection the possibility of being able to cut the grass when green and store it in silos should be considered, as a source of valuable fodder-supply might thus be developed, while at the same time by the removal of the grass, while green, the risk of its being burnt later on in the year when dry would be minimised. It should be reported in next year's report how the system of proposed grazing, even though limited, affects reproduction; it is a matter that greatly affects the preparation of working plans, and every practical instance bearing on it should be noted.

27. The Conservator, Southern Circle, reports that the villagers are beginning to realize the advantages of protection, and that they have come forward in some cases to ask for it: so desirable a feeling should be dealt with with tact and discretion.

28. It is noted that no mention is made in this year's reports of pollarding: where grazing requirements are heavy, and the local demand is for small timber only, experiments in this direction might well be made. The reproduction on unprotected areas is not reported on.

29. *Management.*—The forests are worked mainly on the seigniorage system, a system which is cheap and easy, and in the present stage of forest settlement a necessity, but a system also which is wasteful and unintelligent, and by which fire-protection is much impeded: it is satisfactory, therefore, to note an increase in the number of forests taken under departmental management, or worked under conditions similar to those of departmental management, on the contract system. Final working plans have been so far drawn up for only two small blocks in the Coimbatore district,—one of those plans accompanies the Conservator's report,—but preliminary schemes have been drawn up in the Northern Circle for the Sandúr leased forests, for the Ballipalli forests in Cuddapah, for the casuarina plantations in Nellore, for the Nílgiris and for the Mudumalai leased forest, and in the Southern Circle for Nilambúr, for the Tekadi leased forest, and for portions of South Coimbatore, South Canara and North and South Arcot; the collection of statistics for the preparation of working plans for other forests is also in hand, and the annual plans of operations, which answer somewhat the same purpose, are generally well adhered to.

30. Free village requirements were met, partially by the grant of free permits, as in South Arcot, Vizagapatam, and Kurnool, partially by the formation of village forests, as on the Nílgiris, and in Nellore and the upland taluks of Cuddapah, and partially by the free use of unreserved waste, as in Bellary; as a general rule, the method most in accordance with the previous custom of the district and with local requirements was adopted, but the matter is still in an unsettled state and will require further elaboration and settlement, as the reserved forests close in. The materials taken under free permit were mainly building materials for burnt or ruined houses; in South Arcot, for instance, 19,200 cubic feet of timber were taken to repair the ravages of the floods of 1884.

31. The collection of *drift* is of importance only in Godávari: there some 16,000 cubic feet of timber, most of it teak, was collected and sold for Rs. 7,139.

32. *Grazing.*—This important subject has hardly been dealt with by Conservators in the detail that it merits: its satisfactory disposal lies at the bottom of all forest conservancy in this presidency, and the problem of combining the provision of pasturage with the production of timber is one that sooner or later must be solved: it is obvious, in view of the large areas that are being placed under the trained management of the

Forest Department, that the former is almost as important an item of "forest conservancy" as the latter, and the Board would be glad to see the question of providing it fairly faced: on it, in fact, hinge the working plans of the future.

33. So far as payment for grazing is concerned, the general policy is, that sufficient areas, whether village forest or unreserved waste, should be left out for the free use of such a proportion of the cattle as may be entitled to free grazing, and that all other cattle should be driven to the reserved areas and should pay grazing fees which, beginning low, should only gradually rise to the maximum; but how far this policy has been adhered to or what proportion of the maximum rates has so far been imposed, it is not possible to tell from the figures given in the report; all that is clear is that there are very great differences in different districts, partly, no doubt, due to actual difference and in the natural conditions of the districts themselves, but partly also, it is evident, due to a want of policy: in the Northern Circle, for instance, Kistna produced Rs. 34,000, Bellary 2,200, Kurnool 1,500, Godávari 1,100, and the rest virtually nothing: in the Southern Circle, Trichinopoly produced Rs. 2,100, South Coimbatore 2,000, North Coimbatore Rs. 1,400, and Madura 1,300; in the cases of Kistna and Kurnool, the fees have been imposed for many years; in other districts, they are mostly only recently imposed. The Bellary reserves were thrown open to cattle in the year on account of the drought, and proved of great value.

34. *Police.*—The following statement shows the number of prosecutions, undertaken in the year, as compared with the figures of the previous year; it will be seen that there is a small increase, but that, on the other hand, the percentage of convictions was smaller; the figures, however, for the Southern Circle are misleading on account of the inclusion of "compounded" cases as acquittals: the Conservator promises to separate them properly next year. In the Northern Circle the percentage of convictions was over 80 in the Nílgiris, Vizagapatam, Cuddapah, Godávari and Kurnool: of 2,002 cases in both circles, 1,737 were cases of unauthorized felling and 51 cases of firing: cases of cattle-trespass and encroachments on reserved lands are reported to be common in the Southern Circle:—

Year.	Southern Circle.		Northern Circle.	
	Number of cases for disposal.	Number of cases disposed of	Number of cases for disposal.	Number of cases disposed of.
1884-85	1,031	823	846	767
1885-86	1,343	1,252	926	860

35. The assistance of the Revenue officers is acknowledged in Cuddapah and Kurnool, and the want of it is complained of in Wynaad: complaints by the public against the Forest Department appear to have been scarce, or, at least, are not noticed.

36. *Yield and working.*—The figures under this head have been carefully abstracted in chapter V of each of the Conservators' reports, and the Board need, therefore, only notice them briefly. The yield of each circle is shown below under I, Removals by departmental agency; II, Removals by purchasers; and III, Free grants:—

—	Timber				Fuel.	Bamboos.	Minor produce.
	C. FT.	TONS.	LB	NO.	TONS.	NO.	TONS.
I. Southern Circle .	170,778	298	1,649	51,504	10,133	64,228	68
Northern ,, ..	..	1,737	..	..	15,900	Tons 92	72
II Southern ,,	854,302	..	..	1,126	132,580	,, 25,746 & Nos 67,865	3,598
Northern ,, ..	..	3,999 10	..	..	12,392	Tons 559	69
		4,009					
III. Southern ,, ..	24,342	..	..	..	5	Tons 65	..
Northern ,, ..	C. loads 16	..	..	..	C. loads 240	C. loads 389	..

Of the total amount so collected, 3,513 tons of timber, 21,990 tons of fuel, 86,287 bamboos and 379 tons of minor produce were disposed of, realising Rs. 2,01,994 in the Southern Circle and Rs. 1,60,851 in the Northern Circle.

37. Under "departmental agency" the yield of timber was mainly from Nilambúr, Cuddapah, Ganjam and Wynaad-Pálghat; fuel came from Nellore, Nílgiris, Trichinopoly and North Arcot, bamboos from Nilambúr and Guddapah, and minor produce from South Canara and Nellore; a considerable quantity of fuel was supplied to Railway Companies and fair sales of logs were made from the forests and from depôts to private agencies, but issues to the Public Works Department appear to have virtually ceased altogether; the Conservator, Northern Circle, hopes before long to substitute sales from the forests for all sales from depôts outside, as effecting a saving of time and labor; too near an approach to the seigniorage system should, however, be guarded against. The collection of red sanders and sandalwood roots continued profitable. The sales of Government fuel on the Nílgiris are reported to have been placed during the year on the same footing as sales of private fuel, that is to say, the petty retail sales were given up and sales of large quantities to middlemen by tender were substituted in their place: the Board, however, would like to have had a more detailed comparison of actual rates, not only for the Nílgiris, but also for Madras and elsewhere where Government and private sales compete.

38. To the head of "removals by purchasers," under which it must be remembered comes a large part of the fuel supplied to middlemen contractors for railway purposes, Cuddapah contributed Rs. 1,26,000; Salem 1,09,000, North Arcot 85,000, and Kurnool 71,000.

39. *Financial results.*—The receipts and charges for the year are compared below with the figures of the previous year:—

		Receipts	Charges: Works	Charges: Establishment	Surplus
		RS.	RS.	RS.	RS.
1884-85	Southern Circle	6,25,492	2,09,344	2,87,579	1,28,569
	Northern „	5,37,197	1,86,080	2,01,418	1,49,699
1885-86	Southern „	6,52,318	2,34,006	3,00,608	1,17,704
	Northern „	5,46,282	1,88,920	2,12,887	1,44,475

and the percentages of the year are shown below:—

	Per cent. of establishment to total expenditure.	Per cent. of surplus to gross receipts.
Southern Circle	56·23	18·04
Northern „	52 98	26·63

40. As the Conservators point out, a comparatively large outlay is necessary at the commencement of work and too large a surplus should not be looked for: form No. 64 shows that the districts which produced that surplus were, in the Southern Circle, North Arcot, Salem, Nilambúr and South Canara; and, in the Northern Circle, Cuddapah, Kurnool, Godávari and Kistna.

41. The Conservator, Southern Circle, adds an interesting abstract showing the relative cost of departmental working and of working under the permit system: the charges of the former were 78 per cent. of receipts and of the latter 54 per cent., the latter being, therefore, much the cheaper on paper, though probably, as the Conservator rightly points out, the dearer in fact, when the waste and mismanagement almost inseparable from it are also considered.

42. *Inspection, &c.*—The Conservator, Southern Circle, visited all the districts in his circle, except Tanjore, during the year: the Conservator, Northern Circle, visited

the districts of Ganjam, Cuddapah, Kurnool, Bellary and the Nílgiris; for the three cold-weather months, Mr. Peet acted for Mr. Gamble, and spent most of the time in an exhaustive tour through Kurnool.

43. The following District Forest-officers merit mention for the number of days spent by them in camp, though all District Forest-officers are reported to have travelled well:—

Names of officers.	Number of days.
Mr H. A. Gass ...	250
„ R. W. Morgan	249
„ Vincent ...	228
„ Sim ...	228
„ Porter ...	217
„ Lodge ...	209
„ Cherry ...	194
„ Higgens ...	189
„ Brasier ...	182

44. Mr. Boileau, Deputy Conservator in charge of Kistna, died in the year and Mr. Sim, Duputy Conservator in charge of Kurnool, was retransferred to the Revenue Department: Messrs. Wolfe-Murray and Castlestuart Stuart, C.S., and Mr. Pinto were Special Forest Settlement-officers, the latter only quite at the close of the year: Mr. Homfray, Assistant Conservator, had charge of the Central office of Accounts.

45. The Conservators name Messrs. Higgens, Vincent, Stanbrough, Lushington, Peake and Lodge, but all officers appear to have worked hard, and the results, in the shape of increased efficiency in forest administration, may, the Board think, be considered highly creditable both to them and to the Conservators: the latter, it must be remembered, had to struggle against the effects of the large reduction in expenditure which was ordered early in the year.

46. The Board regret the delay in the submission of the present report: it is due mainly to the length of time which the printing and subsequent correction of the detailed code forms, embodied in the report, require.

(True Copies and Extract.)

(Signed) H. A. SIM,
Acting Sub-Secretary.

To the Secretary to Government, Revenue Department, with two reports.
„ Conservator of Forests, Southern Circle.
„ „ Northern „
To all Collectors.
„ the Examiner of Forest Accounts.

Order—dated 5th March 1887, No. 235, Revenue.

Forest, No. 31.

With their Proceedings read above, the Board of Revenue submit the Annual Reports of Forest Administration, Northern and Southern Circles, for the year 1885-86.

It is observed that these reports were respectively despatched by the Conservators on the 26th and 28th of July last, while the resolution of the Board of Revenue reviewing them did not reach Government until the 29th ultimo. The delay of six months is said to be due to the length of time required for the printing and subsequent correction of the detailed code forms, embodied in the report. While willing to make every allowance for the delays so caused, His Excellency the Governor in Council cannot but think that greater expedition might have been used and he regrets that he must regard the explanation offered as being, by no means, satisfactory. In future if similar delay is anticipated a copy of the text of the report should be sent in advance.

It is gratifying to note that, in deference to the remarks made in the review for 1884-85, the Conservators of both circles have found themselves able to curtail their reports to a material extent, but Government consider that the Conservator,

Southern Circle, might do much to abridge future reports by omitting from them the numerous abstracts of appendices given in the present instance. In most cases it would suffice if he showed in the body of the report totals in lieu of particulars of districts.

2. *Reservation.*—The following tabular statement exhibits, for each circle, the work of reservation done during the year under review, the different classes of reserves being separately shown :—

—	Southern circle			Northern circle.			Total.		
	Up to March 31st 1885.	Up to March 31st 1886.	Difference.	Up to March 31st 1885.	Up to March 31st 1886.	Difference.	Up to March 31st 1885.	Up to March 31st 1886.	Difference.
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Reserved Forest under Act V of 1882	1,113	1,526	+ 413	8	102	+ 94	1,121	1,628	+ 507
Reserved Forest under previous orders, &c.	1,040	307	— 733	819	802	— 17	1,859	1,109	— 750
Leased forests	49	49	..	262	136	— 126	311	185	— 126
Reserved lands	1,291	3,503	+ 2,212	3,593	3,557	— 36	4,884	7,060	+ 2,176
Other forests	1,156	1,126	— 30	..	..	..	1,156	1,126	— 30
Total ..	4,649	6,511	+ 1,862	4,682	4,597	— 85	9,331	11,108	+ 1,777

It will be seen from the above that the extent of forest reserved under Act V of 1882 amounted on March 31st, 1886, to 1,628 square miles, of which 507 square miles were added during the past official year. The small proportion of the work done in this direction in the Northern Circle is said to have been due to a lack of special Forest Settlement officers. This defect has, however, now been remedied, and His Excellency the Governor in Council trusts that better results in the future will be the consequence The Board of Revenue point out, in this connection, that several large blocks in the Northern Circle were practically settled at the end of the year, the issue of final notifications under section 16 of the Act being the only requisite necessary to complete the work.

During the year, 748 square miles were proposed for reservation, under section 4 of the Act, in the Southern Circle, and 942 square miles in the Northern. The total area under settlement, *i.e.*, the area proposed under section 4 of the Forest Act, regarding which notifications under section 16 had not been issued, amounted to 1,619 square miles in the Southern Circle. The Conservator, Northern Circle, does not give the figures under this head, but merely refers to his previous reports where lists of blocks, "proposed or reserved forests," are given, without any information as to area. His attention will be directed to paragraph 6 of letter of the Government of India, No. 487, Forest, dated 6th June 1886, communicated with G.Os., Nos. 542, 542A, Revenue, dated 1st July 1886, and in future reports this point should be carefully attended to. From the figures given in paragraph 6 of the report of the Southern Circle, it is observed that the increase in forests, reserved under the Act, has been, for the most part, effected by transfers thereto of areas regarded as reserved, prior to the passing of Act V of 1882. No information on this point is afforded for the Northern Circle.

2,212 square miles were added to "reserved lands" in the Southern Circle, during the year; of which 1,542 square miles represent new areas brought under protection. In the Northern Circle, the area under this head remained almost unchanged. In paragraph 19 of his report, Mr. Gamble explains that, until the reserved forests are settled and such village forests as can be made available are also set aside, it will not be possible to define very accurately "reserved lands." Government do not understand why, if in the Southern Circle it has been possible to select and set aside a large area as reserved lands, similar work could not have been done in the Northern Circle also. They would be glad of a more detailed explanation of the further remark that in the Northern Circars there need be no necessity for constituting many, if any, reserved lands.

Village Forests.—Although the importance of the selection of village forests was emphasized in the review of forest administration for 1884-85, very little seems to have been done in this respect, the work being confined to the Nílgiris, Cuddapah and Nellore. Government have, very recently, received the proposals referred to in paragraph 4 of the Board's Proceedings, and these will be disposed of in due course. As they advocate material alteration in the policy of Government with regard to the management of forest matters, they appear, to call for very careful consideration.

The total area under the control of the Forest Department amounted, at the close of the year, to 11,108 square miles; it is improbable that this area will be largely increased. Much, however, remains to be done in the way of transfers from one head of reserves to another. His Excellency the Governor in Council considers that, in future reports, illustrated maps, showing the various kinds of "reserves" and the progress which had been made in their settlement up to date, might be used with much advantage. In this way the information asked for by the Government of India, in their letter quoted above, will best be furnished.

3. *Demarcation.*—No information as to the area demarcated is furnished by either Conservator. In the Southern Circle, 193 miles of lines were cleared round reserved forests at a cost of Rs. 3,317. For the Northern Circle, the mileage of the demarcation lines is not given. Considerable progress, however, seems to have been made in the work, as 450 miles were cleared in the Nílgiris and 119 miles in Cuddapah. The cost was 13,060. Rupees 2,000 were spent in the Southern Circle in preliminary demarcation of "reserved lands," the length of boundary marked being 600 miles. The total cost incurred under demarcation amounted to Rs. 18,377. Both Conservators point out that there can be no uniformity in the rates, as the cost depends so much on the method of demarcation and the nature of the ground and of the jungle and undergrowth to be encountered.

4. *Survey.*—The little work done in this respect was confined to the Southern Circle. The great importance of Forest surveys was not, however, lost sight of, and Government had under consideration during the year, proposals of the Conservators for future operations. It has since been arranged with the Government of India that the Forest surveys in the southern and western districts should be undertaken by the Topographical Survey of India. It having, very recently, been decided that the Revenue Survey is not to be called upon to do work for other departments, No. I Party cannot now take up the survey of the reserved forests in Vizagapatam and Ganjam, and special arrangements, which should have the early attention of the Conservator and Board of Revenue, will be requisite as regards those districts.

5. *Fire Protection.*—The protection of 1,483 square miles of forest was attempted during the year and successful results were attained with regard to 1,445 square miles of this area. The corresponding figures for 1884-85 were 1,465 and 1,426 square miles. The cost in the Southern Circle was Rs. 12-9-0 per square mile, protected for 9½ months, beginning with 15th June 1885, as against Rs. 15-6-0 for 12 months of 1884-85. In the Northern Circle, the cost per mile protected is given for the year and amounted to Rs. 9-1-0 as against Rs. 15-6-0 for 1884-85. Orders have been issued that, in future reports, the statistics of fire protection should be given for the official year. In the Southern Circle, a larger area than in the northern was attempted, with a higher percentage of success. In the Northern Circle, on the other hand, although 143 square miles attempted in the previous year were abandoned, the results were less favorable. This is ascribed by the Conservator to the peculiar season and to incendiary fires.

The results were, on the whole, satisfactory, but it is to be regretted that a wider area was not treated. There is, however, much force in the remark of the Conservator, Northern Circle, that until the reserved forests are settled, demarcated and finally set apart, much progress in fire protection is impossible. For the present, it will probably be advisable, in most districts, to concentrate attention on a few blocks of forest, taking care that the danger of fire therein is, as far as possible, minimised. Both Conservators profess themselves unable to give any reliable information as to the areas which escape fire naturally, and the Board of Revenue, in this connection, deprecate the attention of forest officers being diverted from the absolute necessity of special measures; while concurring with this remark, Government are unable to understand why the mere noting, by forest officers, of the unprotected areas which

escape fire, should have any such effect. The matter is one to which importance is attached by the Government of India, and His Excellency the Governor in Council trusts that it will not be lost sight of.

6. *Grazing.*—Government are fully alive to the importance of this subject, which has, of late, been frequently under their consideration. Maximum rates for grazing fees have been fixed for "reserved lands" throughout the Presidency and it is under contemplation to adopt similar rates for the reserved forests. The question is closely connected with the formation of village forests and until these are set apart, it will be difficult to adopt any uniform policy. The general principles on which the subject has been dealt with, are described in paragraph 33 of the Board's resolution, but the requirements of each district in this respect differ and call for separate consideration. It is now generally conceded that light grazing, under proper restrictions, is really beneficial to forests, and as the Conservator, Southern Circle, puts it, there seems to be no reason why, with the exercise of care and judgment, the operations of the Forest Department should not, eventually, conduce as much to an increased supply of good and cheap pasturage, as of good and cheap timber, firewood and other forest produce.

7. *Prosecutions.*—The following statement shows the number and results of the prosecutions instituted as compared with the previous year :—

Division.	Year.	Number of cases for disposal.	Disposed of			Percentage of column 4 to column 6.
			Convicted.	Acquitted.	Total.	
1	2	3	4	5	6	7
Southern	1884-85	1,031	513	310	823	62·0
	1885-86	1,343	645	607	1,252	51·5
Northern	1884-85	845	602	165	767	78·0
	1885-86	926	635	225	860	73·8

There was an increase in the number of prosecutions in both circles, while the percentage of convictions has diminished. As pointed out by the Board of Revenue, the figures for the Southern Circle are misleading, as cases compounded, under section 55 of the Forest Act, have been shown as acquittals. It would appear from the Conservator's report that such cases were numerous and that, if they are excluded from the list of those disposed of, the percentage of convictions amounts to 75. The results of the prosecutions seem to warrant the belief that complaints are, very generally speaking, not laid, save on good grounds.

8. *Roads and Buildings.*—Rupees 9,479 were spent on roads and bridges as against Rs. 18,767 in 1884-85, the decrease being due to reductions in expenditure ordered by Government in consequence of financial pressure.

In the Southern Circle, 1½ miles of tramway line were laid in South Arcot, while in the Nellore district of the Northern Circle, 2¼ miles were opened and utilized for the conveyance of casuarina fuel. The result has, apparently, been so far very satisfactory.

On buildings, the expenditure amounted to Rs. 23,036, as against Rs. 28,445 in 1884-85.

9. *Natural Reproduction.*—In both circles, the effect of protection has been found favorable to natural reproduction. This has been more marked where protection was thorough. The Conservator of the Southern Circle, however, notices the exception afforded by the forests of the Anaimalai Hills, where the abundant growth of coarse elephant grass, the first consequence of the exclusion of cattle, has choked all other young vegetation. The Conservator proposes to remedy this by light grazing, and the Board of Revenue point out that the grass might be cut and utilized for the ensilage experiments which are now being conducted. But a limited area, however, could be dealt with in this way, as the quantity of grass required for filling the small number of silos to be made would be comparatively insignificant. The proper and more effectual mode of dealing with the difficulty is, no doubt, that suggested by Lieutenant-Colonel Walker. It is gratifying to learn from the report of the Conservator, Southern Circle, that the villagers in Salem and Trichinopoly are beginning to appreciate the

advantages of protection. Government trust that, when the administration of the Forest Department is more fully matured, this feeling may become more widespread.

10. *Artificial Reproduction.*—The area under regular plantations is shown below :—

	On March 31st, 1886.	On March 31st, 1885
Southern Circle	12,283	12,322
Northern „	6,426	6,624
Total ...	18,659	18,946

The apparent decrease in the Southern Circle was mainly due to the transfer of a considerable extent of sandy waste in Tinnevelly from the head "plantations" to "cultural operations." There was, really, an actual addition of 310 acres owing to new planting. In the Northern Circle, 465 acres were abandoned as plantations and included in reserved forests. Some fresh planting was done in Nellore, Cuddapah and the Nílgiris.

The area embraced by cultural operations was—

	Acres	Cost. RS.
Northern Circle	486	1,111
Southern „	557	868
Total ...	1,043	1,979

The principal work done was the planting of seeds of palmyra and *Acacia planifrons*, and the miscellaneous sowing, in natural forest, of babul, dirisana and margosa. The remarks of the District Forest-officer, Nellore, with regard to coppicing casuarina, to be found at paragraph 54 of the report of the Conservator of Northern Circle, are interesting and will, no doubt, be of value to growers of this tree.

The areas under topes are given as—

	Acres.	Cost during the year RS.
Northern Circle	13,161	3,039
Southern „	17,599	9,040
Total ...	30,760	12,079

Both Conservators state that they are unable to afford reliable figures as to either the area or cost, up to date, of topes or plantations, as the statistics of the old Jungle Conservancy Department were, for the most part, entirely erroneous. The Board of Revenue mention, however, that the figures are being gradually checked, and that in a few years accurate information will be secured.

11. *Exotics.*—Government have perused, with interest, the reports of the Conservators as to the growth of the various exotics with which experiment was made. The most marked success has occurred in the case of the mahogany tree, which seems to be doing well in both circles. The Ceara rubbers also appear to have become thoroughly established. Ipecacuanha plants are reported to be in a promising condition at Nilambúr, while Maples and Conifers are thriving on the Nílgiris. The edible date (*Phœnix dactylifera*) did well in the Southern Circle and steps have been taken during the past year to propagate this valuable tree as extensively as possible.

12. *Yield and working of Forests.*—The reports of both Conservators on this subject are very full. The receipts realized by the sale of timber and other produce removed by Government agency during the year amounted to—

	1884-85 RS.	1885-86. RS.
Northern Circle	1,65,272	1,55,232
Southern „	2,13,913	1,97,195

The receipts realized by sale of timber, &c., removed by purchasers, amounted to—

	1884-85. RS.	1885-86. RS.
Northern Circle	3,56,289	3,68,855
Southern „	3,91,684	4,38,950

There has been a small decrease in both circles in receipts on account of removals of timber by departmental agency. The receipts for removals by purchasers have, on the other hand, considerably increased. The Board of Revenue point out certain objections to the removal of forest produce under the seigniorage or permit system. These are undoubted, but the system has the advantage of being indisputably cheap and, until forest settlement has further advanced and working plans have been matured, it cannot be dispensed with.

19,200 cubic feet of timber were granted to ryots for the repair of houses damaged, or destroyed, by floods in South Arcot. Free permits were, also, issued in several other districts, while in others again, the villagers were allowed to make use, without restriction, of trees growing on unreserved lands.

13. *Financial.*—The following table compares the financial results of the working of the department during the past five years.

Year	Receipts	Charges	Surplus
	RS.	RS	RS.
1881-82	8,05,884	6,03,069	2,02,815
1882-83 . .	9,03,914	6,36,558	2,67,356
1883-84	9,58,991	7,80,916	1,78,075
1884-85	11,62,689	8,84,421	2,78,268
1885-86	11,98,600	9,36,431	2,62,169

The receipts for the year amounted to Rs. 6,52,318 in the Southern Circle and Rs. 5,46,282 in the Northern, the charges being, respectively, Rs. 5,34,614 and Rs. 4,01,817. The percentage of the surplus to the gross receipts was 18·04, in the Southern Circle and 26·44, in the Northern Circle. The total surplus was Rs. 16,099 less than in the previous year, but was considerably greater than the budget or revised estimate, this being the outcome of the strict economy in expenditure ordered by Government. For future years, the department has been directed to estimate, so that a minimum surplus of Rs. 2,50,000 may be shown.

14. *General.*—The touring of the Conservator, Southern Circle, embracing as it did every district of his charge, with but one exception, was very satisfactory. Government consider that the Conservator, Northern Circle, should have visited more districts than he did. Forest work cannot progress rapidly if Conservators are not pretty constantly on the move and personal communication with District officers is of far more value than quires of letters. His Excellency the Governor in Council has had much pleasure in perusing the remarks made at paragraph 54 of the Proceedings of the Board of Revenue, and he agrees in the opinion therein expressed that the results of forest operations during the past year are very creditable to the officers concerned.

(True Extract.)

J. F. PRICE,
Ag. Secretary to Government.